

The CHEMIST AND DRUGGIST

for RETAILER - WHOLESALE - MANUFACTURER

Established 1859

28 Essex Street, Strand, London, W.C.2

Registered as a Newspaper

L. 3422
CXL

DECEMBER 18, 1943

Annual Subscription (with
Diary) 25/- Single Copies 6d.

Stonehenge — symbol of
ENDURANCE

XMAS and NEW YEAR GREETINGS
to all our Friends and Allies who by their
ENDURANCE have made certain the
final defeat of the common enemy.

BURGOYNE BURBIDGES

Established 1741. & COMPANY LIMITED. **LONDON. E.6**

*"To suffer woes which Hope thinks infinite;
To forgive wrongs darker than death or night;
To defy Power, which seems omnipotent;
To love and fear; to hope till Hope creates
From its own wreck the thing it contemplates;
Neither to change, nor falter, nor repent;
This, like thy glory, Titan, is to be
Good, great and joyous, beautiful and free;
This is alone LIFE, JOY, EMPIRE AND VICTORY!"*

Prometheus Unbound. (Shelley)

Parke, Davis & Co.

ask for the indulgence
of pharmacists towards
the firm's endeavours
to secure, on the . . .
basis of their customers'
1939 orders, a fair . . .
distribution of . . .
their own officially
restricted stocks . . .



50 BEAK STREET, LONDON, W.1

Inc. U.S.A. Liability Ltd.

Milton Bulletin No. 18**P.A.T.A.**

ORDER MILTON NASAL SPRAYS NOW!

In view of the heavy demand for Milton Nasal Sprays, we would stress the importance of ordering now. While we have ample stocks at the moment, neglect to order may mean delay in dispatch, due to shortage of staff and general wartime conditions.

The Milton Nasal Spray, although designed primarily for spraying the nose and throat, may be used for spraying the air in small rooms. This is invaluable as a prophylactic against colds and influenza.

Recommend the Milton Nasal Spray to your customers, and show the striking display piece featuring the Spray.

Milton Nasal Sprays may be included in the Milton £2 and £5 carriage paid bonus parcels. The retail price is 3s. 6d., free of purchase tax.

If you are not ready to order other Milton products and are in need of Sprays only, these may be ordered separately. We suggest the following parcels:—

1½ doz. Nasal Sprays at 31/6 per doz.: £2 7s. 3d.

5/- will be allowed off this amount for display.

3¼ doz. Nasal Sprays at 31/6 per doz.: £5 2s. 5d.

14/- will be allowed off this amount for display.

Send your order NOW and ask for the distinctive showcard.

Milton Antiseptic Ltd., Chapel Lane, Sands, High Wycombe, Bucks

VITALLY URGENT

It is more essential than ever that all

MACLEANS CARDBOARD RAILWAY CONTAINERS be returned at once

The cardboard shortage is now so acute that unless every customer observes our **CONDITIONS OF SALE**, deliveries will be seriously affected. We are doing our best—please do yours. Don't wait till containers accumulate. Empty them once and send them back—immediately.

1. Fold them flat and tie together with string. (Paper wrapping unnecessary.) Send parcel post. Tuck in flaps where necessary, to keep size within postal regulations. Pack smaller containers inside larger ones. (Four to seven average size containers approximate size allowed.)

2. Use addressed labels received with invoices. Enter cost of postage on Postal Receipt portion of label (which must be date-stamped by Post Office). Detach this Receipt portion and keep it.

3. Postage will be refunded only by our representative when he calls, on surrender of Receipt. This Receipt cannot be accepted for direct credit, and must not be deducted from account.

**WE CAN'T
DELIVER THE
GOODS UNLESS
YOU HELP**

MACLEANS LTD., GREAT WEST ROAD
BRENTFORD, MIDDLESEX.

Tel.: Baling 6616. Wires Macleans Brentford



CROOKES' HALIBUT OIL

BIG NATIONAL ADVERTISING SCHEME COMMENCES SHORTLY

— ORDER STOCKS NOW!

RATIONING AND VITAMIN A

It can be anticipated that the demand for Crookes' Halibut Liver Oil this year will be greater than ever before.

Vitamins A and D are established as essentials to wartime dietary and extensive reminders of their value will be stressed in all advertisements in the National Press.

Owing to packing and other wartime difficulties, it is advisable to order your winter stocks as soon as possible. Our schedule of bonus parcels, as seen from the list, has not been altered.

TERMS OF SUPPLY

- 1 Bonus in kind will be allowed only when one or more standard parcels G, H, J, K, L, M are ordered.
- 2 The order must be accompanied by cash. No pro-forma invoices can be issued.
- 3 Orders for broken parcels or unaccompanied by cash will not be entitled to bonus in kind.
- 4 Bonus in kind cannot be allowed on any other Halibut Oil Products.
- 5 We must reserve the right to restrict the number of parcels supplied to any one establishment and thereby, as far as possible, ensure fair distribution.



CROOKES' HALIBUT LIVER OIL Standard Parcels of Drops or Capsules only

PARCEL	QUANTITY	Bonus	Sell	£	s	d
PARCEL G = 1 DOZEN	12 x 15 c.c. 5/- Drops	1	5/-	3	0	0
	Less 25%			15	0	0
	.. 10%			2	5	0
*Amount of cash with order				4	6	0
PARCEL H = 3 DOZEN	36 x 5 c.c. 2/- Drops	3	2/-	3	12	0
	Less 25%			18	0	0
	.. 10%			2	14	0
*Amount of cash with order				5	5	0
PARCEL J = 1 DOZEN	12 x 30 c.c. 9/- Drops	1	9/-	5	8	0
	Less 25%			1	7	0
	.. 10%			4	1	0
*Amount of cash with order				8	1	0
PARCEL K = 6 DOZEN	72 x 5 c.c. 2/- Drops	12	2/-	7	4	0
	Less 25%			5	8	0
	.. 10%			10	10	0
*Amount of cash with order				16	17	2
PARCEL L = 1 DOZEN	12 x 100 Capsules	1	8/6	5	3	0
	Less 25%			1	5	6
	.. 10%			3	16	6
*Amount of cash with order				7	8	0
PARCEL M = 3 DOZEN	36 x 100 Capsules	3	8/6	15	6	0
	Less 25%			3	16	6
	.. 10%			11	9	6
*Amount of cash with order				1	3	0
				16	10	6

THE CROOKES LABORATORIES (British Colloids Ltd.) PARK ROYAL, LONDON, N.W.10
Telephone : Willesden 6313 (5 lines) Telegrams : Colloids, Harles, London

ASK YOUR
CHEMIST...



IN our press advertisements we advise women to ask their chemist for a copy of "Hygiene for Women," by Nurse Drew.

50,000 direct applications prove women are vitally interested in feminine hygiene.

If you have not a good supply of these popular booklets for counter display then you are not getting your share of the ever-growing demand for the various Rendells Products.

Why not write us today for a supply of our latest Chemist Display Aid?

Rendells
PRODUCTS

PATA

FOR FEMININE HYGIENE

W.J. RENDELL LTD. · HARDWICK HOUSE · 161-5 ROSEBERY AVENUE · LONDON, E.C.1

after 'FLU comes.....

- Excessive **TIREDFNESS**
- **DEPRESSION**
- **Loss of ENERGY**
- **Lack of INTEREST**

In such cases you can recommend **Vykmin** with every confidence. It is an advanced formula. It contains Vitamin A (4500 I.U.) Vitamin B₁ (300 I.U.) Vitamin B₂ (100 Microgrammes) Vitamin C (500 I.U.) Vitamin D (1000 I.U.) Nicotinic Acid (10 mgms).

Vykmin

**MULTIPLE
VITAMIN
CAPSULES**

Obtainable from your regular wholesaler.

HOME HEALTH SERVICES LTD.,
132, Baker Street, London, W.1.

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The "MODERN" TEAT

ANTI-COLIC. RECOMMENDED BY HOSPITALS, DOCTORS AND NURSES

● Ball Top, one-hole perforation, ensuring constant and steady flow.

● Buffer shoulder protects baby's mouth.

● Tab enables teat to be slipped over bottle in an instant with minimum handling.



● General Resiliency **MAKES IT NECESSARY FOR BABY TO WORK JAWS THERE-BY RESEMBLING THE NATURAL NIPPLE.**

● Collar ensures firm grip on bottle which **CANNOT BE PULLED OFF BY BABY.**

● Will stand Repeated **STERILISATION.**

MODERN in design and must be TRIED to be appreciated.

NEAREST TO NATURAL FEEDING

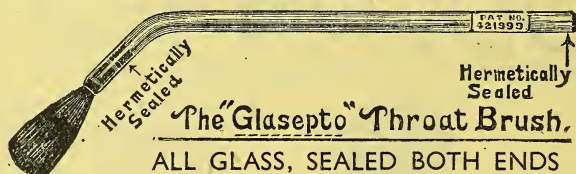
The 'MODERN' Teat has been specifically designed to meet the needs of both MOTHER and BABY, and—what is of vital importance in these days—it **LASTS LONGER.** It is hygienic, odourless and tasteless.

OBTAINABLE OF ALL WHOLESALERS

THE CANNON RUBBER MANUFACTURERS LTD., LONDON, N.17

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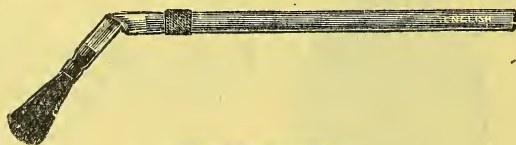
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THERE IS NO OTHER BRUSH
TO COMPARE WITH IT FOR
DESIGN, QUALITY & UTILITY

PRICE 5/6 doz.

BENT OR STRAIGHT
FROM STOCK



Also
THROAT BRUSHES
Wood or Wire Handle



IODINE, TINCTURE
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Makers—
M. J. FECHER, LTD.
121 HIGH STREET
SLOUGH, BUCKS
ESTABLISHED 1891

In constant demand!



What is your stock position? Is it time you ordered again? Supplies are not unlimited. By ordering well in advance you will lessen the risk of being out of stock through unavoidable delivery delays, and, at the same time, assist us to arrange an equitable distribution of available supplies. VENOL, ENO, THERMOGENE, PHENSIC are firmly established, quick-selling, profitable lines. Order well ahead!

VENOL DRUG CO. LTD.
CHESTER ROAD • MANCHESTER, 16



To our valued customers Everywhere,
we send
Christmas Greetings
and the wish that 1944 may bring
to one and all
Peace and Happiness,
and the security for which we are
all hoping and fighting



The Ideal Antiseptic for Children

Solution 'S.T.37' provides high
germicidal activity, low tissue toxicity
without burning or irritation

MOST children fear antiseptics which burn and sting when applied to an open wound. This fear is overcome when solution 'S.T.37' is used, because it does not burn or sting but, rather, it exerts a mild surface analgesic effect which relieves pain in the injured area and encourages the cooperation of the child with the physician.

Solution 'S.T.37' is well suited to the treatment of minor or severe burns in children. When applied by spray or in the form of wet dressings, it relieves the pain through its surface analgesic action and aids in preventing secondary infection.

Solution 'S.T.37' is supplied in three, five and twelve-ounce bottles.

Sharp & Dohme Ltd

On every woman's lips



BEAUTY
AIDS

In spite of the limited stocks of JEAN CLAUDE products at our disposal, we are trying, consistent with present conditions, to satisfy all demands for these best selling lines. Stocks of HUSSAR, the Brushless Shaving Cream which benefits the skin, are now available. Stock up—now—with this quicker shaver, quicker seller. Orders dealt with in strict rotation. Write to:

COSMETIC DISTRIBUTORS LTD., Empire House, 117-119 REGENT ST., W.1

EASY TO MAKE ! TO SELL !

COSMETICS. PERFUMERY

All materials and formulas available. Miscellaneous Raw Materials, including Emulsifiers, Colours, Waxes, Vegetable Oil (no restrictions), Oils, Stearic Acid, Perfumes, etc.

MISCELLANEOUS ITEMS

Liquid Shampoo, Powder Puffs, Sanitary Towels. Metal Caps, Utility Lighters, Composition Corks.

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Bottles and Jars from stock for every purpose. Fancy Boxes, Windowed Face Powder and Sprinkler, Talcum Powder Boxes, Smart Push-up Lipstick Tubes.

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Do not fail to request Lists 3d.

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Lee-Narvill Laboratories, Anlaby Road, Hull



Order from
your regular
wholesaler

He uses Sharpex
and gets a clean shave
week after week from
one blade. Widespread
advertising is stimulating
sales. Sharpex re-
tails at 4/6 (inc. P.T.)

WARTIME *Pifco*
SHARPEX
RAZOR BLADE SHARPENER

NEW ADVERTISED LINE

Shows over 80% profit on first order.

Liquid dentifrice free of abrasive, soap or saponin. Selling rapidly.

Cost per doz.	Pur. Tax	Selling price, incl. tax
No. 0 size 20/-	6/5	36/- (3/- each)
No. 1 size 36/-	11/7	66/- (5/6 each)
No. 2 size 69/-	22/2	126/- (10/6 each)

£1's worth free with every £6 order net value (except for purchase tax); pro rata on orders of £12 or £18.

Steiner's Eau Dentifrice

Enquiries to DOBSON & STEINER,
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TABLETS
 AND
PILLS
 For the
 Pharmaceutical
 Trade

Richard Daniel & Son
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'Phone: Derby 4266-7-8. 'Grams: Dania Derby

Dentesive
 THE NEW BETTER TYPE FIXATIVE
 "Squeezed from a tube"



HOLDS FIRMER AND THREE TIMES LONGER
 THAN ORDINARY FIXATIVES

Price 1/3d. per tube

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 10/15 CHITTY STREET, LONDON, W.1

Stearic Acid (Triple Pressed), Spermaceti, Ceresine Wax, Japan Wax, Lanoline, Gum Tragacanth, Zinc Oxide, Perfumes, Emulsifiers, Glyceryl Monostearate—all in Stock. Prompt Delivery. All packed in 1 lb. tins. Send stamp for Price List.

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We manufacture . . . every variety of

**COMPRESSED
 TABLETS**

We can
 give deliveries
 on time and
 invite enquiries

for the Manufacturing
 & Wholesale Drug Trade

The DALES ASPIRIN CO. (PROPRIETORS)

W.A. TOLKIN
 SILSDEN, NR. KEIGHLEY, Yorks

SCABIES

A SUPERIOR RAPID AND SIMPLE TREATMENT

ANASCABEX presents the powerful anti-parasitic compound dipentamethylene-thiuram-monosulphide in a form which offers the following advantages over earlier methods for treating scabies, pediculosis, etc.

- Free from irritant effects on the skin
- Odourless, non-greasy and dries rapidly
- Pleasantly perfumed, absorbable, simple to apply
- One application sufficient in many cases

This product is now being extensively advertised in the Medical Press and further details will gladly be supplied to Pharmacists on request

Bottles of 4 oz. 3/6d. Hospital size—tins of 1 gallon.



WATFORD CHEMICAL CO. LTD.

50 SOUTH AUDLEY STREET, GROSVENOR SQ., LONDON, W.1

Telephone: Grosvenor 1016

Distributors in Eire: MAURICE FITZGERALD & CO., LTD., 8/9 Temple Lane, Dublin

A 100% SALES LINE...

It's self-sweetened, unrationed, easily prepared; a malted tonic food produced from the soya bean—nature's most nutritious food. Concentrates in a cup practically every essential nourishment. Economical in use.



Full supplies and quick turnover assured; prompt deliveries

JENNER'S
MALTED
Soyacream
SWEETENED

RETAIL PRICE 2/- per $\frac{1}{2}$ lb. tin.

SPLENDOR LTD., 7c Lower Belgrave St., S.W.1
and 5 BEASTMARKET HILL, NOTTINGHAM

The 7^D
PRUNOL
sells on sight
KEEP IT TO THE FRONT

Prunol continues to increase in public favour. It is in constant demand for children and adults. Supplies are still available for prompt delivery from all wholesale houses.

Prunol sells at 7d. & 1/5 (including tax)

PRUNOL PROPRIETARIES LTD.
Sales Dept.

Northington House
NORTHINGTON ST., LONDON, W.C.1

Prunol
PASTILLES
THE IDEAL FRUIT LAXATIVE



The Popular PHOSFERINE PRODUCTS

are on the **PATA** List



The great demand for Phosferine Products has created many problems connected with the manufacture, packing and distribution of these very popular lines. But these difficulties, as they arise, are being overcome.

It will be necessary to introduce emergency packs for Phosferine Tablets, owing to the shortage of glass and the difficulty of obtaining carton board. These new packs, wax paper tubes, are illustrated in the group of Phosferine Products.

PHOSFERINE (ASHTON & PARSONS) LTD., King Georges Avenue, WATFORD - HERTS.

Simpkins

To Chemists **NOT** serviced by our Representatives

**MEDICATED TABLETS } To all
VITA GLUCOSE } Chemists
CONFECTIONS—Eastern Zone only**

The demands of War-time Control and to meet priority labour needs of an arsenal city, reduces:—

- (a) Supplies to 45 per cent. pre-war.
- (b) Effective efficient labour and clerical force to 25 per cent. pre-war.

In spite of the foregoing we are continuing to meet all applications for quotas (45 per cent. pre-war) from our datum year purchasers. In fact at certain periods we have been able to increase allocations

- (a) Owing to business casualties.
- (b) Others entitled to quotas particularly from Scotland who have not applied.

We are woefully short of clerical staff to remind such chemists they are entitled to supplies, and they are asked to note these trade **ANNOUNCEMENTS** as our only means of communication.

STOP PRESS:—More Vita Glucose is now available for Diabetics on Insulin.

of Sheffield

LIMITED SUPPLIES NOW AVAILABLE

**LEMON FLAVOURED
"BEVERAGE" POWDER**

**ORANGE FLAVOURED
"BEVERAGE" POWDER**

(Very highly concentrated.)

3 oz. Jars. Retail price 1/-

Orders executed in strict rotation.

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11 Brushfield Street,
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ANIMAL ORIGIN**

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**A FULL RANGE OF GLANDULAR
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WARM GLANDS SUPPLIED IN
AMPOULES, TABLETS, LIQUIDS
AND CAPSULES**

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Also PEPSIN all strengths

PEPTONE

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(Pure)**

PANCREATIN U-S-P

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Powdered
Purified**

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**EXPERTS IN SPECIAL ARTI-
CLES TO MEASURE. Ladies
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BELTS for all purposes. CHEST
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PENSORY BANDAGES, ELAS-
TIC HOSE (seamed and
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**For all types of
Hernia.**



**Wholesale Dealers in Medi-
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Air-proof goods. General
sundries.**

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EST. 1830

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perfect register of cutting and printing

ARTHUR GREEN, M.P.S.
Broadway Pharmacy
WOLVERHAMPTON

Send for details and samples

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CASH**
CAPTIVE BOLT PISTOL



**FOR CATS, DOGS AND
ANY SIZED ANIMAL**

**GIVES INSTANTANEOUS UNCONSCIOUSNESS
—SAFE, SIMPLE, CLEAN, ECONOMICAL—
RECOMMENDED AND USED BY THE R.S.P.C.A.**

ACCLES & SHELVOKE LTD., ASTON, BIRMINGHAM 6

MOTHAKS

PREVENT ALL DAMAGE BY MOTHS

Increasing numbers of people are coming to realise that measures to combat the moth menace must be in operation during winter time, and in fact all the year round. MOTHAKS advertising continues throughout the year. MOTHAKS are a most attractive line; reasonable in price, effective, profitable.

Your customers are going to find the Christmas Present problem more difficult this year than ever before. They will probably appreciate the suggestion that MOTHAKS, in their brightly coloured bags, make an acceptable and useful gift, serviceable for months to come, and the price is not excessive.



Why not a few bags of MOTHAKS for a Christmas Gift?

SOLE MAKERS

THOMPSON & CAPPER WHOLESALE LTD.

5a SPEKE HALL ROAD, LIVERPOOL, 19

Telephone: Hunts Cross 1321

Telegrams: "Sanitas, Liverpool"

WHOLESALE & EXPORT ONLY

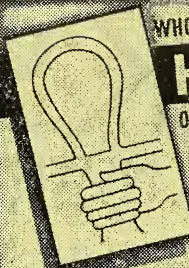
HYPODERMIC NEEDLES

OF ALL DESCRIPTIONS

S. & R. J. EVERETT & CO. LTD.

Original makers of **STAINLESS STEEL NEEDLES**
 Our Specialities include the Original Record Fitting and
 N.H.I. Specification Hypodermic Needles
 Also the famous 'SUMMIT' hypodermic needles now **ALL
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Comprehensive catalogue sent on request 'Phone: Thornton Heath 3352-3

939, LONDON ROAD,
 THORNTON HEATH, LONDON, S.W.16



EMBOSSSED LABELS,
STOCK OR TO ORDER.

Please write

JAMES TOWNSEND & SONS, Ltd., EXETER.

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 LIMITED
 BRITANNIA HOUSE
 256/260 OLD STREET, LONDON, E.C.1

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**SURGICAL
 DRESSINGS**

**SANITARY
 TOWELS**

◆

ESTABLISHED 1850

WILLIAM MATHER, LIMITED
 DYER STREET, MANCHESTER. (Est. 1824)



ZINC OXIDE and RUBBER ADHESIVE PLAISTER
 ON SPOOLS
 POROUS PLAISTERS, ELASTIC PLAISTER
 BANDAGES
 ANTISEPTIC PLAISTER DRESSINGS, "CROCUS"
 CORN COMFORT, Etc.

"SURCO"

RELIABLE

ELASTIC HOSIERY

SEAMED AND SEAMLESS

For special garments to measure
we give the best possible service

SURGICAL BELTS TRUSSES AND SUNDRIES

50 years' service of
everything Surgical

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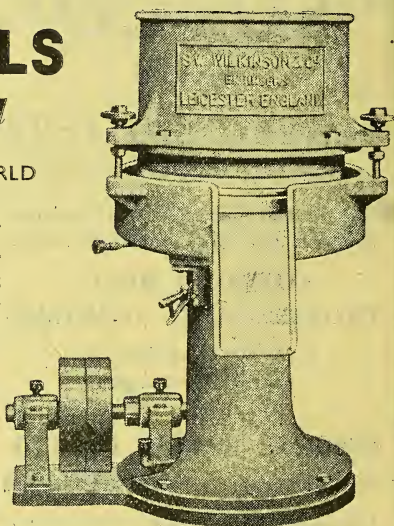
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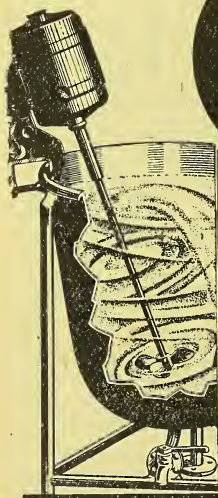
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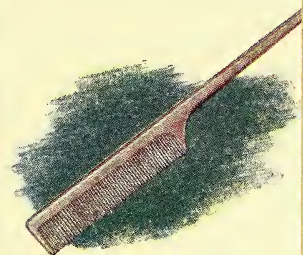
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NEWS OF THE WEEK

Contributions to Appeal Fund.—Mersey-side branches of Boots, Ltd., have contributed £10 10s. to the Merseyside Y.M.C.A. £50,000 Appeal Fund.

Protest Against Call-up of Chemists.—Rotherham Rural District Council decided recently to protest to the Man-power Board should it be found that the proposed call-up into mines of a local chemist caused the closing of a shop stated to be serving a large population.

Exchange of Buying Information.—Manchester Branch of the Guild of Public Pharmacists has inaugurated a scheme for the dissemination of information amongst hospital pharmacists. Under the scheme, members pass on details of consumption, average amount ordered at one time, size of packages, and price paid for ten groups of drugs.

Mouse Test for Penicillin.—At the Royal Institution, London, recently, Professor H. W. Florey (Professor of Pathology at Oxford University) explained the application of the mouse test to penicillin. During

one night penicillin was injected every three hours into one group of infected mice while another was untreated. In the morning all the untreated mice were dead and all the penicillin-treated mice were alive.

Newcastle Employees.—A meeting of the Newcastle Branch of the National Pharmaceutical Employees' Union was held recently, when certain resolutions were passed and new members enrolled.

Christmas in Eire.—A correspondent writes: "Although this is the fifth Christmas of the war, the windows of the Dublin pharmacies, particularly those in the centre of the City, are as attractive and festively dressed as ever. The variety and quality of the gift sets and coffrets on display are little below those of pre-war days."

War Damage to Date.—A statement issued recently by the chairman of the War Damage Commission records that 2,750,000 separate damaged properties are at present on the books of the Commission. 1,754,000 separate claim forms have been received from the public in

respect of them, and 1,124,000 are due for payment at once.

Plastic Surgery Unit.—The Nuffield Provincial Hospitals Trust has offered a sum of £8,000 annually for ten years to the University of Oxford towards the cost of establishing and maintaining a plastic surgery unit. The University has accepted the offer and has appointed Mr. Thomas Pomfret Kilner, M.P., F.R.C.S., as first director, with the title Nuffield Professor of Plastic Surgery.

Lantern Lecture at Brighton.—Brighton and Hove Branch of the Pharmaceutical Society met on December 9 to hear a lantern lecture by Dr. G. R. Boyes (a member of the medical staff, Parke, Davis & Co.) on "Recent Advances in Therapeutics, with Special Reference to Vitamin Therapy." Mr. Paterson was in the chair, and the thanks of the meeting were expressed by Mr. Hudson.

Public Pharmacists' Registrar.—Mr. A. G. Shaw (assistant registrar of the Guild of Public Pharmacists) has been elected registrar at least until the end of the Guild year owing to the call-up into the Forces of the present registrar (Mr. James Carey). Members are asked, when writing or sending subscriptions, to address their communications to Mr. A. G. Shaw, Pharmacist, North Middlesex County Hospital, Silver Street, Edmonton, London, N.18.

Ethical Pharmaceuticals.—At the eighth annual meeting of the Ethical Pharmaceuticals Association, held recently in London, the following officers were elected for the year: *Chairman*, Mr. G. L. Cooper; *Vice-chairman*, Mr. C. W. S. Taylor; *Committee*, Messrs. J. Angus (Bengué & Co., Ltd.); R. F. Edkins (Organon Laboratories, Ltd.); A. C. Henry (Bayer Products, Ltd.); W. Beckley (Charles Zimmermann & Co., Ltd.), *ex officio*; and H. R. Napp (H. R. Napp, Ltd.), *ex officio*.

Leicester Discusses Post-war Plans.—Members voiced their feelings on the post-war planning of pharmacy at a meeting of the Leicester and Leicestershire Branch of the Pharmaceutical Society on December 9, Mr. A. M. Muswell in the chair. Fears that pharmacists in business would not obtain adequate recognition of their ability to cope with a dispensing service for the whole population led to the following resolution, which was carried: "That this meeting is not in favour of State dispensaries." Other members thought there would be too much control of their businesses, with suppression

of individual enterprise and freedom. Mr. E. B. Ward thought control was nevertheless inevitable if the patient was to be the primary consideration in any national medical service; in any case, members would not find anything new in this, considering the numerous Regulations and Acts at present in force. On a suggestion from Mr. A. Wompra, a small committee is to be formed to collate the stated views of prominent pharmacists on questions of post-war policy.

Glasgow Branch Whist Drive.—The Glasgow and South-western Scottish Branch of the Pharmaceutical Society held a whist drive in Glasgow on December 7 in aid of the fund for sending gifts to members of the Branch on war service. The company of some 200 guests was welcomed by Mr. D. Gemmell (president), Mr. Andrew Officer (vice-president) acted as M.C., and Mr. Colin Campbell was cardmaster. Mrs. Officer presented the prizes to the following: *Ladies*—(1) Mrs. Aitken; (2) Mrs. R. C. Murray; (3) Miss Maginnes. *Lady playing as gentleman*—Miss J. H. Suttie. *Gentlemen*—(1) Mr. E. J. B. Allison; (2) Mr. H. Allison; (3) Mr. J. Drummond. The proceeds, along with donations, totalled £100.

Discussion on Drug Action.—A discussion on "Modes of Drug Action" took place recently at a meeting of the Faraday Society. SIR HENRY DALE stressed the complexity of pharmacological problems, and suggested that attention should be focused not on generalisations, but on their exceptions. PROFESSOR J. H. GADDUM discussed the antagonism of drugs and the quantitative relations between the antagonists. Two kinds of interaction gave rise to group antagonism over a wide range of concentrations; some antidotes neutralised poisons by forming inert compounds with them, others by competing with poisons for chemical groups essential to living tissues. DR. H. R. ING said that, when a series of allied drugs was studied, it was often possible to recognise pharmacological dynamic groups which appeared to be essential for one particular type of action. Such groups might be said to be essential for combination with the receptors, but there were anomalies: the same pharmacological dynamic group was commonly present both in active drugs and in their antagonists. The results could be explained in terms of combination between the two drugs for the receptors; but since drugs with a feeble action did not antagonise

drugs with a greater action on the same receptors, the response must depend on the amount of drug combined with the receptor and not on the magnitude of its effect when so combined.

Sweets Ration.—There is no change in the amount of the ration or in the value of personal points coupons for ration period No. 6, which began on Sunday, December 12.

Prices of Razor Blades.—The President of the Board of Trade, in reply to a question in the House of Commons on November 30, said the prices of razor blades were regulated by the Prices of Goods Act, 1939, under which a number of convictions had been obtained. He had no reason to think that the present methods of distribution need be altered.

Health Workers' Council.—A decision taken at a delegates' meeting recently to form a Health Workers' Council has been implemented by publication of a constitution. The aims of the Council are stated as being to bring together societies, professional organisations and trade unions whose members are engaged in the health services, so as to co-ordinate their work in preparation for and carrying out of a comprehensive national health service.

Industrial Research.—Mr. Hutchinson asked the Parliamentary Secretary to the Ministry of Works on December 8 under what conditions he was prepared to grant facilities to firms engaged in the production of technical or scientific products to construct new research laboratories or to extend existing laboratories required to enable such firms to undertake research necessary for the development of their post-war trade.

Mr. Hicks: Subject to the overriding demand of the Government building programme, and of war damage and other essential housing works, sympathetic consideration has been and will be given to applications to construct or extend research laboratories which have the support of the departments concerned.

Inquests.—At Westminster, recently, an open verdict was returned by the coroner at an inquest on Barbara Jean Sinclair, a hospital nurse, who was found dead in bed on October 15. Evidence was given that in the bedroom were a hypodermic syringe, a phial containing seventeen morphine tablets and some Luminal tablets. Sir Bernard Spilsbury, who carried out a post-mortem examination, said that there was no natural condition to account for death.

—A verdict of death from poisoning was returned at Carlisle, recently on Joseph Brolly, Chadderton, Lancs, who died as the result of drinking a decoction made by boiling metaldehyde tablets in water. A pathologist stated that Brolly must have imagined the metaldehyde was a solid form of methylated spirit.

Medical Speaker at Newcastle.—At a meeting of the Newcastle District and Northumberland Branch of the Pharmaceutical Society held recently, Dr. Charles M. Brooks, of Benton, Newcastle-on-Tyne, read a paper entitled "Health and the Degeneration of Protoplasm." Protoplasm, said Dr. Brooks, was the unit of life, and healthy protoplasm was essential for a healthy plant and animal. Healthy and fertile soil produced healthy and fertile plants, which, in turn, reacted to the benefit of beast and man. In the early Middle Ages this country was an agricultural nation and the land well husbanded, animal and vegetable waste products being returned to the ground. The race was small in number but virile, and at that period it began to expand and built up a vast Empire; though few in number, they were able to engage any other country alone, whereas today they needed allies. Once a country embraced an industrial era it forsook the land, farming was neglected, and the soil impoverished, and, in an effort to restore fertility, a resort was made to artificial manures. Insufficient foodstuffs were grown in this island to support the needs of the greatly increased population; foreign foods were imported; they were cheaper, an attraction for commercial interests. The results were clearly shown in health statistics: an increase in cancer, an increase in tuberculosis and dental caries, and a decrease in fertility. Our protoplasm was no longer healthy, no longer immune to the attacks of disease, though man should not naturally be prone to such attacks. Proof was readily forthcoming to show that where impoverished soil was treated with artificial manures produce grown thereon showed a greater tendency to succumb to the attack of fungi, smuts, etc. Medicine today was occupied in counteracting the effects of all this inferior diet by administering vitamins and tonics to supply the deficiencies; by vaccines, to combat the onslaught of disease in an effort to create an artificial immunity. But this was not eradicating the cause, unhealthy protoplasm. This country must get back to the land and return to simple diets of fresh home-grown produce.

EMPIRE AND FOREIGN NEWS

India Health Survey.—The Government of India has appointed a committee, under the chairmanship of Sir Joseph Bore, to investigate all aspects of public health in India.

North Africa Morphine Theft.—A consignment of more than 12,000 tubes of morphine, stolen from a United States' army base in North Africa, was traced to a pharmacy in Casablanca. Only 300 tubes had been sold.

Opium Prohibition.—The Colonial Secretary announced recently that opium-smoking was to be prohibited in British and British-protected countries in the Far East now in Japanese occupation. The territories chiefly affected are British Malaya, the Federated Malay States, and Hong Kong. Sir Malcolm Delevingne (a member of the Pharmaceutical Society's Council), writing on this decision in "The Times" on November 26, said the decision would be warmly welcomed in the United States and in China.

Prices of U.S. Vitamin Products.—Increased public demand for vitamin preparations in the United States has expanded production and distribution in such a way as to make the business more profitable without any increase in prices. A movement is now understood to be afoot in the Office of Price Administration to effect a cut up to 20 per cent. of present prices. Considerable dissatisfaction is being expressed by both manufacturers and retailers at the prospect of such government interference. Several makers have pointed out that the Office has no authority to reduce prices, but only to establish ceilings beyond which prices may not go. "What the O.P.A. small groups have proposed," said one retailer, "is not price control. . . . This contemplated order would set a limit on profits based upon the old theory which has been rampant in O.P.A. since its early days, that increased volume should not produce increased profits." The manufacturers and retailers contend that their profits should be computed by the normal trade procedure.

RECOMMENDATIONS FOR CALL-UP OF PHARMACISTS

STATISTICS are given below of the recommendations made to the Ministry of Health by the Central Pharmaceutical War Committee up to September 30. The figures

include pharmacists who subsequently obtained deferment of call-up on hardship grounds or who for medical reasons or as conscientious objectors are not called up.

	RELEASED						RETAINED					
	Under thirty			Over thirty			Under thirty			Over thirty		
	Retail	Hospital	Wholesale	Retail	Hospital	Wholesale	Retail	Hospital	Wholesale	Retail	Hospital	Wholesale
Prior to Dec. 1942	2971	59	96	572	4	49	—	—	—	—	—	—
Dec. 1942	103	26	6	518	9	39	—	—	—	—	—	—
June 1943	183	7	1	—	—	—	—	—	—	—	—	—
Sept. 1943	48	11	13	459	12	32	430	46	10	4229	148	157
Totals	3305	103	116	1549	25	120	430	46	10	4229	148	157
Grand Totals		3524			1694			486			4534	

TOPICAL REFLECTIONS

New Industrial Council

The inauguration of a National Joint Industrial Council for "retail pharmacy" may come to be regarded as the chief pharmaceutical event of the present year, at any rate so far as the business of chemists and druggists is concerned. By referring to an editorial article in your issue of October 30 (p. 441) your readers can form a fairly exact idea of the nature and scope of the new Council, as these bodies conform to essentials to a pattern. As was pointed out in the *C. & D.* of June 19 (p. 620), the Industrial Council proposed for the drug trade in 1919 was to have comprised a retail section and three others: the present Council is exclusively for the retail interests. Further information concerning its aims and procedure should soon be available. Its formation has settled the question, raised from time to time, whether the retail drug trade was sufficiently organised to support a council of this type; it is now made clear that it does not need the imposition of a trade board. On a first reading of the names of the organisations represented it looks as if the connexion of a few of them with the trade is somewhat slender, and it would seem that their delegates will have little to do; this impression, however, may be modified in the light of more complete knowledge. The regulation of conditions of employment, placed first in the list of subjects to be dealt with, is a matter preferably handled on a national scale rather than by sporadic efforts. In the negotiations likely to arise there will be no doubt, as you suggest, be give and take.

Employed Pharmacists' Organisation

The statement from the Pharmaceutical Society printed on p. 586 has a manifest connexion with the subject of my preceding paragraph. Employed persons, whether pharmacists or not, will naturally wish to avail themselves of the services of experienced trade-union representatives at meetings of the new Joint Industrial Council. Before calling its conference, the Council of the Society presumably studied with due attention the judgment delivered in the Jenkin case (*C. & D.*, 1920, II, 1496), which set forth the powers and limitations of the Society in respect of industrial questions. The net result of the discussions referred to appears to be that the Council has added to its functions, figuratively, that of carpenter and joiner. Let us hope that a neat job will result. I should be able to give a

less qualified commendation to this activity of the Council (involving, it will be noticed, "a number of meetings") were it not for the fact that in the spring of this year the president, secretary and deputy-secretary of the Society took an active part, as reported in your issue of May 15 (p. 506), in the formation of a Pharmacy Faculty Committee of the National Union of Students. That step seemed to me entirely in keeping with the traditions of the Society: I am not so sure that the erection of a sign-post guiding employed pharmacists to the precincts of a particular trade union is equally congruous with the accepted duties of the Council. Moreover, registered apprentices or students, not being qualified persons, do not receive similar guidance. Are they not equally in need of direction at this juncture?

"C. & D." Diary

I have just received my copy of *The Chemist and Druggist Diary and Year Book* for 1944. A perusal of the editorial contents shows that a number of new features of general interest to retailers and the drug trade have been introduced. The seventy-sixth edition of this useful publication needs no apology as a war-time production. The articles on "How to Become a Chemist" are authoritative and complete and will be of assistance to retailers when answering inquiries from potential apprentices. The fashion, indeed often the necessity in these times, for independent retailers, to form their business into a limited company, is reflected in your article explaining in simple terms how this development is undertaken. Your article on the Pharmacy and Medicines Act, 1941, has been brought up to date by the inclusion of references to the latest rulings. The nine pages on "Purchase Tax" is probably the most complete and concise reference published to this very complicated legislation. The nineteen classes of goods covers everything dealt with by retailers or wholesalers, with the sections "Drugs and Medicines" (Class 19) and the exempted "Costly Drugs" of particular interest. The Purchase Tax Guide, showing the class and rate of tax on some hundreds of kinds of goods of the drug trade and others that are exempt from the tax is a useful reference in confirming the correct tax, both when buying and selling, and the Tax Calculator, which completes this section, is a real time saver.

Xrayer

LEGAL REPORTS

Food and Drugs Act Case.—At Portsmouth police court, recently, Myram Picker, Ltd., Lancaster Gate, London, W.2, were fined £20 on each of two charges of selling tincture of iodine 60 per cent. deficient in iodine, and of giving a drug a label which falsely described it. The tincture was purchased by a local sanitary inspector from a local branch of Woolworths, Ltd., and found to be deficient in iodine, and to contain 110 per cent. excess of iodide.

Alleged "Black-market" Activities.—At Manchester Assizes, on December 6, sentences were passed on Victor Verdun Barma and Cebert Ellis, who were charged with conspiring to contravene the Limitation of Supplies Order. Barma was sentenced to nine months' imprisonment, fined £100, and ordered to pay half the costs of the case, for acquiring and supplying rationed goods otherwise than against the surrender of coupons, for breaches of regulations concerning the manufacture and supply of face cream, and for conspiring to contravene and do acts preparatory to the commission of offences against the Defence Regulations and various Orders. Ellis was sentenced to nine months' imprisonment, fined £500, and ordered to pay half the costs, for supplying and offering to supply rationed goods without coupons, and for conspiracy. A third man, Horace Albert Miles, shampoo manufacturer, was bound over after pleading guilty.

Mineral Water or Cordial?—Whether a bottle of ginger drink was a mineral water or non-alcoholic wine or cordial was discussed in a case at Wolverhampton police court, recently, when Kandy Co., Ltd., 279 High Street, Smethwick, were summoned for selling to Arthur Knowles, trading as Rays, Broad Street, Wolverhampton, a bottle of ginger drink, part of a consignment of 126 dozen bottles, containing an excessive amount of preservative. The company itself summoned Frisco Trading Co., 10 Essex Street, London, W.C.2, on the ground that the alleged offence was due to an act of default on the part of the latter company. Prosecuting, the public analyst for Wolverhampton said the drink contained 330 parts per million of added preservative against a permitted maximum for sweetened mineral waters of 120 parts. For the defence, the public analyst for the City of Westminster and boroughs of Hammersmith and Kensington expressed the opinion that the drink was not a mineral water but a non-alcoholic wine or cordial, because it was not

effervescent. The managing director of Kandy Co., Ltd., also described the drink as a ginger-wine cordial. After tasting a sample of the drink and studying various trade catalogues, the stipendiary magistrate dismissed the summons against both firms, allowing to the Frisco Trading Co., Ltd., £26 5s. and to Kandy Co., Ltd., £5 5s. costs against Wolverhampton Corporation, who instituted the proceedings.

Razor-blade Transactions.—At Manchester Assizes, on December 6, sentences were imposed on Bertram Rubin, M.P.S., Ducie Street, Liverpool (see *C. & D.*, September 25, p. 304, and October 16, p. 378), and Francis Charles Pugh, M.P.S., Smithdown, Liverpool (see *C. & D.*, September 25, p. 304). Each was fined £300 and costs. Rubin pleaded guilty to aiding and abetting Frederick Joseph Mulholland in the sale to Rubin of hair grips, rouge, lipsticks, mascara, eyebrow pencils and razor blades at excessive prices; also to supplying goods without labels, and failing to furnish invoices. Pugh pleaded guilty to aiding and abetting Mulholland in the sale to himself of hair-grips, hair-nets, tooth-brushes and razor-blades at excessive prices. —At Manchester Assizes, on December 10, John Henry Bretherton, dock labourer, Birkenhead, who had been found guilty at Liverpool Assizes (see *C. & D.*, October 16, p. 378) of receiving 20,000 razor blades, the property of the Government, knowing them to have been stolen, was sentenced to twelve months' imprisonment, and for black-market offences to six months, the sentences to be concurrent.—Myer Newman, general dealer, Ainsdale, who had been convicted of offences under the Prices of Goods Act (see *C. & D.*, November 20, p. 506), was sentenced to four years' penal servitude, ordered to pay penalties of £4,000 and half the costs of the prosecution in seven cases, and a quarter of the costs in an eighth.—Frederick Joseph Mulholland, accused of breaches of the Prices of Goods Act relating to razor blades and cosmetics, was sentenced to twelve months' imprisonment in the second division.—George Henry Ward, general merchant, Wavertree, and Cecil Leicester James, forwarding agent, West Kerby, were fined £500 each and ordered to pay half the costs of the prosecution on charges of selling razor-blades at excessive prices.—John Patrick Gibbons, salesman, Mossley Hill, was fined £25 on similar charges, and given six months in which to pay.

COMPANY NEWS

CHARLES ROMILLY, LTD.—Capital £100. Manufacturers of and dealers in cosmetics, perfumes, toilet requisites, etc. R.O.: Bridge Works, Old Ford Road, London, E.2.

HARCOURT PAINTS, LTD. (P.C.)—Capital £100. Manufacturers of and dealers in paints, varnishes, polishes, dyes, oils, etc. R.O.: Bridge Works, Old Ford Road, E.2.

EFRIL, LTD.—Registered in Edinburgh. Capital £5,000. Varnish, enamel and paint manufacturers, etc. A. S. Lamont, 36 Darnley Road, Glasgow, and J. Martin, 83 Clifton Road, Southport, directors.

JOHN KNOX (MIDLAND), LTD. (P.C.)—Capital £10,000. Wholesale, manufacturing and dispensing chemists and druggists, etc. Charles H. Coxon and Frederick W. Tompkinson, directors. R.O.: Cannon Street, Hanley, Stoke-on-Trent.

BOLSTER'S MEDICAL HALL, LTD.—Registered in Dublin. Capital £300. Wholesale or retail manufacturing and pharmaceutical chemists, etc. Miss Irene M. Bolster, 2 Aughrim Street, Dublin, and Peter J. Duffy, 21 Portland Road, Dublin, directors.

FOSTER & SONS (SURREY), LTD. (P.C.)—Capital £1,000. To acquire the business of chemists carried on by Cecil H. & W. E. Foster as "Foster & Sons" at 149 Brighton Road and 209 Chipstead Valley Road, Coudsdon, and at 397-99 Croydon Road, Wallington. Cecil H. Foster and William E. Foster, directors.

IRISH PHARMACEUTICALS, LTD.—Net profit, after providing for all charges (£3,390), and bringing in a balance of £6,067, amounted to £8,573. A dividend of 6 per cent. has been declared. Mr. S. McCauley (managing director), moving adoption of the report and statement of accounts at the annual meeting on November 24, said there was no doubt the trading position could be maintained for a considerable time. The supply position in regard to raw materials had not improved, but turnover had been substantially increased, an increase that had been considerably accelerated since June 30; in Christmas goods more than twice the previous year's quantity had been produced and distributed. "I think I am safe in saying, therefore, that we have faced up to the emergency much better than any of us could have hoped for, and we have every

reason to feel proud of our accomplishments. . . . Our van goes all over the country from Donegal to Kerry, and is one of our best advertisements." The directors were precluded by law from paying a higher dividend, but he thought that the profits were used to greater advantage in augmenting stocks of raw materials to chemists all over the country. The directors were considering the restoration of the pre-war special terms and discounts wherever possible, but it would be understood that there would be no purpose in giving quantity discounts on the few lines which were "rationed." The separate company, Dawn, Ltd., would soon have premises of its own. In addition they held a controlling interest in the Island Bawn Laboratories, Ltd., the assets of which now totalled £5,039. Mr. P. C. Cahill seconded the motion for adoption. Others supported, and the report and statement of accounts were unanimously adopted. Dr. T. P. Magnier (a retiring director) was unanimously re-elected, and Mr. J. J. Grehan was re-elected the auditor of the company.

VOLUNTARY LIQUIDATION.—A meeting of members of Iva Fur Puffs, Ltd., will be held at 68 Upper Thames Street, London, E.C.4, at 10.30 a.m. on December 30, to learn how the company's winding-up has been conducted.

Compulsory Winding-up.—In the Chancery Division, recently, Mr. Justice Bennett made an Order for the compulsory winding-up of Charles Roger (Laboratories, 1938), Ltd., on the petition of Albert Metcalfe, Park Parade, Harrogate. Mrs. Kennedy, a shareholder, who appeared, said that while she did not oppose the order she desired the liquidator who was appointed to be the permanent liquidator. She alleged that the business had been transferred to a new company that had been formed. Solicitor for the petitioner stated that this could not be done until a meeting of creditors had been held. He said the business of the company was making cosmetics. Mrs. Kennedy claimed that it was a light engineering business, mostly making medical appliances. Mr. Justice Bennett said on the allegations in the petition Mr. Metcalfe was entitled to the winding-up order. The Official Receiver would become the liquidator temporarily and would look into the affairs of the company.

TRADE NOTES

Powders for Head Colds, etc.—A. S. Price & Co., Ltd., Blackheath, Birmingham, direct attention to their speciality Fluzo powders for colds, 'flu, etc.

Spectacle Frames.—Jules Lang (Optical), Ltd., Charlton Place, Islington, London, N.1, offer acetate spectacle frames, nickel joints, rivets, and jewellery requisites.

Anæsthetic Prices Revised.—Duncan, Flockhart & Co., publish their revised prices for chloroform, pure and blue label, and for anæsthetic ether in this issue. The new prices come into operation on January 1.

An After 'Flu Remedy.—Home Health Services, Ltd., 132 Baker Street, London, W.1, are offering their Vykmín multiple vitamin capsules, details of which will be found in this issue.

Milton Nasal Sprays.—The Milton Bulletin No. 18 published in this issue makes a special offer of Milton nasal sprays with showcards provided. Milton Antiseptic, Ltd., Chapel Lane, Sands, High Wycombe.

Next Season's Fertilisers.—Ormskirk Fertiliser, Ltd., Burscough Bridge, Ormskirk, have ready for the trade their Vitax handbook explaining the characteristics and uses of fertilisers and card of trade prices.

Price List.—Pharmaceutical Specialities (May & Baker), Ltd., Dagenham, London, are publishing a new edition of their price list. A copy will be sent on receipt of one penny stamp, to conform with a Paper Control Order.

Advertised Cough Mixture.—The Kofeze Co., a subsidiary of C.C.C., Ltd., 120 Victoria Street, London, S.W.1, are advertising Kofeze liquorice cough-mixture in the Press. Terms are given on another page; ample supplies are available.

Vocational Guide.—A pamphlet (p. 13) giving a list of some examining bodies which have been able to continue examinations during the war period has been published by the Institute of Export, Royal Empire Society Building, Northumberland Avenue, London, W.C.2.

Homogenised Foods.—A booklet entitled "Why," and consisting of questions and answers about Libby's homogenised foods has been issued by Libby McNeill & Libby, Ltd., 15 Lime Street, London, E.C.3. Homogenised spinach, carrots and No. 3 (combination of carrots, peas and spinach) are again available.

Botanical Plants Illustrated.—The second of an artistic series of advertisements by

Potter & Clarke, Ltd., 60-64 Artillery Lane, London, E.1, illustrating plants of interest to students of medical botany appears in this issue (the first—*Papaver Somniferum*—appeared in the issue dated December 4). Messrs. Potter & Clarke's knowledge and experience in this field are well known.

Photographic Trades Social Club.—A brief history of the Club, written to give publicity to its activities, to preserve records which might otherwise be lost, and to raise funds, has been issued as a 24-page booklet for which members are being asked to pay 2s. 6d. as a donation. Proceeds, after payment of expenses, will be divided equally between the Fred Giles Memorial benevolent fund and the Club's welfare fund. Copies may be obtained from the secretary, 110 Second Avenue, Gillingham, Kent.

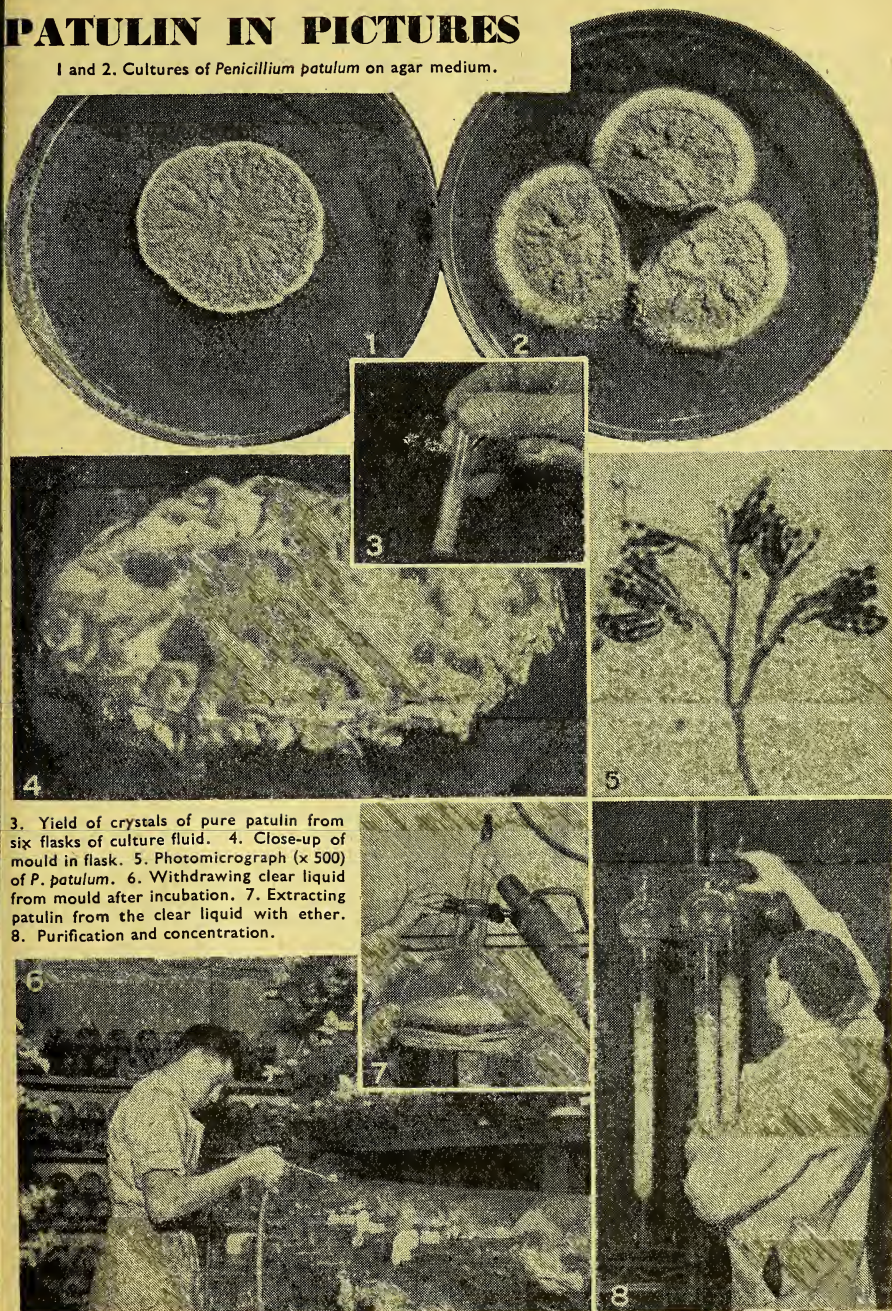
Christmas Holiday Closing.—The offices and warehouse of C. J. Hewlett & Son, Ltd., 35-42 Charlotte Road, London, E.C.2, will be closed on December 25, and December 27 for the Christmas holidays. The warehouse will also be closed for stocktaking for the remainder of the week. Urgent orders only will be executed.—Wright, Layman & Umney, Ltd., 44-50 Southwark Street, London, S.E.1, will be closed on December 25 and December 27 for two days' holiday and will not be open for business on December 29, 30 or 31, on account of stocktaking.—The office and warehouse of British Schering, Ltd., 185-90 High Holborn, London, W.C.1, will be closed from Friday evening, December 24, till Tuesday morning, December 28. Urgent orders may be obtained from John Bell & Croyden or W. Martindale, 50 Wigmore Street, London, W.1.—Lofthouse & Saltmer, Ltd., Hull, announce that their offices and factory will be closed on December 25 to December 27 inclusive, and also on December 30 and December 31 for stocktaking.—Roche Products, Ltd., Welwyn Garden City, Herts, will be closed on December 25 and December 27, reopening on Tuesday morning, December 28. During this period urgent requirements may be obtained day and night from John Bell & Croyden, 50 Wigmore Street, London, W.1.

Business Changes

G. P. FAIRMAN & SON, LTD., chemists, Sunderland, have closed their branch business of C. Ranken, 19 Stockton Road, and are conducting all business from 24 Vine Place, Sunderland.

PATULIN IN PICTURES

1 and 2. Cultures of *Penicillium patulum* on agar medium.



BIRTHS

FLEMING.—At 71 Great King Street, Edinburgh, on December 3, the wife of Stanley James Fleming, M.P.S., 50 High Street, Tranent, of a daughter.

HERD.—At 9 Grosvenor Street, Edinburgh, on December 5, the wife of William Elder Herd, M.P.S., 48 High Street, Bonnyrigg, of a daughter.

DEATHS

ADAMS.—On December 6, Mr. William Adams, Ph.C., 30 High Street, Shrewsbury, aged eighty-nine. Mr. Adams was a native of Devon and went to Shrewsbury about 1882. He had been in business as a chemist for over fifty years, and was well known locally for his work for the Shrewsbury Horticultural Society, for Poor Law improvement, and for his activities on the Town Council, of which he had been a member since 1904.

BATES.—At his residence, 68 Lower Drumcondra Road, Dublin, on December 6, Mr. Robert Bates, M.P.S.I. "Bob" Bates was one of the most enthusiastic members of the Irish Chemists' Golfing Society, of which he had been captain and for many years past a capable and conscientious treasurer. A native of Strabane, co. Tyrone, Mr. Bates qualified in January 1909 and shortly afterwards opened a pharmacy at Drumcondra Road, Dublin, where he carried on a successful business for many years.

CHAMBERLAIN.—At Leicester, on December 12, Mr. Archibald Siddons Chamberlain, 34 Evington Street, Leicester, for over thirty years a representative of Potter & Clarke, Ltd., London.

CAMMACK.—On November 15, Mr. John Francis Jeffery Cammack, Ph.C., 30 Webbs Road, London, S.W.11, aged eighty.

EDWARDS.—On December 1, Mr. Reuben G. Edwards, founder in 1878 of Edwards' Harlene Co., and governing director of Edwards' Harlene, Ltd., from its incorporation in 1916. Mr. Edwards is succeeded in the directorship of the company by his son, Mr. Joseph R. Edwards, who is at present serving with the Royal Air Force.

MAGILL.—At a Dublin hospital on November 28, Mr. Walter Magill, a member of the staff of Kodak, Ltd., Dublin, from 1930-33, and Irish manager of the company from 1933-37, when he was obliged to retire through ill-health. After treatment in Belfast, his native city, and in Dublin, he was able to rejoin the company in July 1942,

but recently he became seriously ill and died shortly after admission to hospital. At the removal of the remains from his residence, Fortfield Road, Terenure, Dublin, for entainment to Belfast, there were present Messrs. J. J. Stafford (manager), W. Kidd, R. H. Davis, T. Malone, N. C. Smith and Miss Cunningham from Kodak, Ltd.; Messrs. Lyall G. Smith, M.P.S.I., and A. J. Donnell, M.P.S.I., representing the Eire Branch of the Photographic Dealers' Association. At Belfast many representatives of the leading photographic houses in the northern capital were present to receive the remains; they included Messrs. H. Daulman (Kodak, Ltd., Belfast), A. McLoughlin, M.P.S.N.I., R. C. Little, H. Solomons, L. Morrison, F. M. Neale, F. Moore, P. McKeon and T. H. Pidduck.

PERSONALITIES

MISS M. E. GRIGG, B.Pharm. (Lond.), has joined the staff of Allen & Hanburys, Ltd., Bethnal Green, London, E.2.

MAJOR W. E. WOOLLEY, M.P.S., M.P. for Spen Valley, has resigned his seat on Blackburn Town Council through pressure of Parliamentary and other work after twelve years' service.

DR. E. M. LOURIE, who has been appointed principal of a newly-created chemotherapy research section of the Liverpool School of Tropical Medicine, was appointed to the staff of the School in 1930. Later, he spent two years in America under the Rockefeller Foundation, working on the chemotherapy of malaria.

DR. ALEXANDER FLEMING, the discoverer of penicillin, is the recipient for 1943 of the American Pharmaceutical Manufacturers' Association's annual award to the scientist who has contributed most to the scientific advancement of medicine during the year. In a broadcast speech to the United States, acknowledging the award, Professor Fleming said that in September 1928, when he saw on a culture plate some bacterial colonies fading away in the neighbourhood of a mould colony, he had no suspicion that he had a clue to the most powerful substance yet used to defeat bacterial infection in the human body. As he worked on penicillin, some of its merits were revealed. In the strongest solutions he could get, the substance did not damage the human blood corpuscles, nor cause any toxic symptoms when injected into animals. Unfortunately, when he came to apply the crude penicillin to patients, various simple concentration methods were tried with little success.

ULSTER CHEMISTS' ASSOCIATION

At the monthly meeting of the executive committee of the Ulster Chemists' Association on December 7, Mr. H. P. Crossin, M.C., was unanimously elected *President*, a succession to Mr. P. R. W. Shinner. In proposing Mr. Crossin, Mr. SHINNER, who was in the chair, said his own sojourn in the chair had been a very happy experience. The president could have had a better committee, the members of which had been actuated by a spirit of helpfulness and co-operation. He could assure Mr. Crossin that his year, or years, of office would be as enjoyable as his predecessor's with the same loyal committee behind him. Mr. Crossin required no introduction to the members of that body. They all knew his sterling qualities and the interest which he took in everything pertaining to the welfare of chemists. He had had plenty of experience in the committee's work, and had been a most enthusiastic member at all times. "I feel every confidence that in the year ahead our Association will be well looked after by such a president," added Mr. Shinner. MR. A. STEEDE, who seconded, also paid tribute to Mr. Crossin. The new president then took the chair amidst applause.

President's Address

Returning thanks, MR. CROSSIN said he considered his election a great compliment, as he had done nothing more than any of them to merit the honour. He would do his best to justify their confidence. It was probable that the year ahead of them would see the end of hostilities, at least in the western theatre of war. This eventuality would no doubt bring its problems, but he hoped that with the help of a capable executive committee the office-bearers would not be unduly taxed. "Prominent in the trade Press is the introduction of a State medical service of a much wider scope than at present. What form this will take and whom it will benefit are not yet determined, but it is certain to influence our calling in the future to a marked degree," went on Mr. Crossin. "There seems to be a reluctance to consult pharmacists on the part of those framing legislation of this kind. As your president I cannot stress too strongly our claim to be consulted, and to be informed of what is intended before final decisions are taken.

In reflective moments we are inclined to contemplate what is going to happen in our profession when the war ends. I feel strongly

that we should seek early abolition of the multiplicity of restrictions and controls we have been saddled with during the past years. We chemists have enough to do in carrying out the various poisons and other regulations which directly concern us without having to keep, for instance, daily records of sales of cosmetics and toilet goods. Again, hours of keeping open shop should not go back to those of pre-war. If the public can be served during reasonable hours in the stress of war-time living, there is no reason to justify longer hours in peacetime. If at a future date legislation should ask for or insist on service after ordinary closing-time we should have something in the nature of a rota ready to put into operation. At an early date we should see our newly-formed Associates' Section in full swing. The formation of this Section is not an afterthought or an offset against certain demands from outside sources made recently. It is a genuine attempt, prompted and suggested by our retiring president over a year ago in his address, to make provision and to cater for qualified chemists not in retail business on their own account, qualified assistants, assistants and apprentices.

Thanks to Predecessor

On my own behalf and on behalf of all members of the Association, I want to thank Mr. Shinner for the work, time, and energy he has so willingly given whilst in office. During the two years he has occupied the chair he has conducted and controlled our affairs in a masterly way. He has certainly set a precedent that will be difficult to follow, but with your indulgence and help I will endeavour to carry on in his footsteps to the best of my ability." (Applause.)

Election of Officers

MR. CROSSIN proposed Mr. A. E. Johnston as *Vice-president*, remarking, amid laughter, that Peter's Hill and Carrick Hill would be a useful combination. The motion was seconded by MR. E. A. RICHEY, and passed. MR. W. J. Rankin was re-elected *Treasurer*, on the motion of MR. J. MCGREGOR, seconded by MR. R. A. McEWEN. Other re-elections were: Messrs. R. and T. A. Gibson as *Secretaries*; Mr. Joseph Wellwood and Mr. J. A. McRoberts as *Auditors*; Messrs. C. Abernethy and J. McClenahan (secretary) as representatives on the Chamber of Trade; and Mr. Walter C. Tate as representative

of the Association on the Ulster Tourist Development Association.

MR. CROSSIN referred to the absence of Mr. John McDowell who, he said, had been instrumental in persuading him to rejoin the Ulster Chemists' Association committee. He expressed the hope that the committee would shortly see Mr. John McDowell amongst them again restored to health. A vote of thanks was passed to the outgoing president and secretary for their work during the year, on the motion of MR. R. HALL, Bangor, seconded by MR. E. A. POOTS, Larne. THE SECRETARY reported on his visit to the Chemists' Friends Association meetings in London on November 24.

Associates' Section

The executive committee of the Association has been active in recent months in

organising an Associates' Section for employees (pharmaceutical chemists not in business on their own account), assistants, and apprentices. A draft set of rules was agreed upon at a meeting held in consultation with prospective Associates. The rules have been circulated to all members of the U.C.A. with a request that they should be passed on for the information of employees. Subscription rates have been fixed as follows: Pharmaceutical chemists, 10s.; assistants, 7s. 6d.; apprentices, 2s. 6d. A meeting will be held on December 16 to enrol Associates and elect a temporary committee. The first general meeting of Associates will be held as soon as possible after January 1, 1944, to elect a full committee for the Section to be composed of eight pharmaceutical chemists, four assistants, and two apprentices.

WHO SHALL CONTROL PHARMACY?

At a meeting of the National Association of Women Pharmacists on December 1, Mrs. J. K. Irvine, M.B.E. (a member of the Pharmaceutical Society's Council), gave an address on "The Control of Pharmacy."

Existing Controls

She explained that "control" meant regulation, administration and government. This had been in the hands of the Pharmaceutical Society for a hundred years. While still a voluntary body the Society had been in the unique position of administering the various Pharmacy Acts; its power and authority were strengthened by the Pharmacy and Poisons Act, 1933, when disciplinary powers over its members were added. At present the apprenticeship, education, examination, registration and professional conduct of the pharmacist were controlled by the Society, as well as the compounding, dispensing and selling of poisons, while the 1941 Act gave the Society control of medicines as distinct from poisons only. There were, of course, other control authorities besides the Society, such as the Home Office (for dangerous drugs), Customs and Excise (for spirits) and local authorities (Shops Act, Sunday Trading Restriction Act, Food and Drugs Acts, etc.). Even Insurance Committees exercised a slight control over contractors for N.H.I. dispensing. The war, with its abnormal conditions, had produced controls not only of drugs, raw materials and practically all supplies, but also of personnel, staff and premises. The war controls were administered by the

Ministries of Labour, Health, Food, Supply, and Home Security, and the Board of Trade.

"One begins to wonder," said the speaker, "amidst this multiplicity of control, whether the Pharmaceutical Society is still master in its own house and, if not, with whom the ultimate control is going to rest."

Joint Industrial Councils

Mrs. Irvine went on to mention two new forms of control—the Joint Industrial Council for Retail Pharmacy and the Central Pharmaceutical War Committee. It was a pity, she said, that the proposed J.I.C. for pharmacy should be limited to the retail side, but it seemed inevitable that, with the approach of a comprehensive medical service, the Government should attempt to set up such a Council. Discussing the origin of the Whitley councils she pointed out that the Whitley Committee had recommended that such councils should be composed of equal numbers of employers and employed. Seventy-seven J.I.C.s were established as a result of the Whitley report of 1917. Mr. Bevin (Minister of Labour) had said recently that he had helped to promote twenty of the Joint Industrial Councils since he had been in office, and that strong representations were being made to him for legal regulations to protect and strengthen them. Hitherto the work of the Whitley councils had been somewhat hampered by their lack of authority to see that their findings were carried out. Under war-time legislation conditions of employment agreed upon by a J.I.C. could be

forced upon employers, provided that the J.I.C. was fully representative of the bulk of employers and workers. In the proposed J.I.C. for Retail Pharmacy the employers were already organised in the National Pharmaceutical Union, but employees were still largely unorganised. It was the duty, therefore, of all employed in retail pharmacy to join a trade union, and through their union to be represented in the J.I.C. Such a Council would deal mainly with considerations of wages, hours and working conditions, but some of the objects of a Joint Industrial Council, if carried out by the new Council, would encroach on the powers and authority of the Pharmaceutical Society and must be closely watched.

The C.P.W.C.

Turning to the Central Pharmaceutical War Committee the speaker said that it was no exaggeration to say that it was the most powerful body in pharmacy today, dealing as it did with the lives and fortunes of pharmacists—men and women—coming under its control. It decided the number of students who might continue their studies to a higher qualification; whether or not a business was necessary for the pharmaceutical needs of the community; and how many pharmacists or dispensers were required by a hospital. Men and women were unable to change their employment without the consent of this all-powerful Committee which, in effect, had been applying the Essential Works Order to pharmacy without the employee having the safeguards of that Order. Not only did the C.P.W.C. direct men to the Services and move men and women from post to post like pawns on a pharmaceutical chess board, but it was setting up standards as to the amount of dispensing either in hospital or shop that a pharmacist or dispenser might be expected to accomplish, and even as to the number of customers that might be served.

By-passing the Society

Here, then, was pharmaceutical control of a most stringent and far-reaching nature, which by-passed, as it were, the supreme governing body in pharmacy—the Pharmaceutical Society of Great Britain. Moreover, this powerful Committee was not composed entirely of pharmacists. There were a number of lay members representing various interests, such as the Services, Government departments, finance, trade unions, etc. The Council of the Society

had representatives on the Committee, but these were present as individuals and did not necessarily express the policy of the Council. The C.P.W.C. "reported" to the Council from time to time, but was subject to no control from it.

In the Future

Looming on the horizon was another form of pharmacy control—the proposed Pharmacy Commission, which was to undertake the administration regarding the suggested comprehensive medical service, and pharmacists must see that this Commission was predominantly pharmaceutical. Doctors declared that they would not take orders from laymen, and pharmacy must equally claim to share in the administration of all questions affecting pharmacists and the supply of medicines under a State scheme. There was, as everyone could see, a gradual transference of authority from the governing body in pharmacy to the State with its war-time Rules and Orders and to outside bodies with interests other than those of pharmacy to consider. Pharmacy must decide whether it would continue to rule itself or be ruled, and the only way to make sure is for every member to take an active interest and part in pharmaceutical politics. The ultimate responsibility for the future of pharmacy depended upon individual members.

COMING EVENTS

Sunday, December 19

PHARMACEUTICAL GROUP, SOCIALIST MEDICAL ASSOCIATION, 17 Bloomsbury Square, London, W.C.1, at 3 p.m. Mr. H. Price, Ph.C., on "Pharmacy in the U.S.S.R."

MANCHESTER PHARMACEUTICAL ASSOCIATION. Ramble round New Mills. Meet London Road Station at 9.30 a.m. Book New Mills return.

C. & D. QUIZ NO. 17

1. When was aloes first introduced into Great Britain?
2. What is the origin of the word "fox-glove"?
3. What is solid opodeldoc?
4. What is Marylebone cream?
5. What is mitigated caustic?
6. What is corchorus?
7. What is ethyl carbamate?
8. What is Löffler's paint?
9. What is Queen's root?
10. What is ethocaine?

(Answers on p. 631)

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Official organ of The Pharmaceutical Society of Great Britain, The Pharmaceutical Society of Northern Ireland, The Chemists' and Druggists' Society of Scotland and of other Chemists' Societies in the Empire

DL. CXL DECEMBER 18, 1943 NO. 3332

The fact that goods made of raw materials in short supply owing to war conditions are advertised in this paper or described in its editorial columns should not be taken as an indication that they are necessarily available for export.

Pharmacists and Influenza

WE have received a copy of Circular 2897, dated December 9, issued by the Ministry of Health, entitled "Influenza," instructing local authorities what special steps they should take to combat the present influenza epidemic. Paragraph 3 of this circular deals with the suspension of call-up of doctors, and reads as follows:—

"Arrangements have been made to defer temporarily the call-up of doctors to the Services. The issue of recruitment notices, medical examinations and interviews may proceed, but the actual call to duty will be deferred. Arrangements have also been made under which in districts where the need is urgent the military medical authorities will give such assistance in civilian work as the requirements of their duties permit. Medical Officers of Health and secretaries of Local Medical War Committees are being advised on the method of applying for such help when necessary."

It is evident that the Whitehall authorities realise the effect the epidemic is having on the nation's war effort. We anticipated that in a later paragraph of the circular there would be appropriate reference to the

equally important rôle that pharmacists are taking in fighting the scourge. To our astonishment pharmacists are not mentioned. So far as the Ministry of Health is concerned, it seems, they do not exist; their vital work in supplying the public with medicines in times of epidemics is completely overlooked. The part that can be played by doctors, nurses and various national and local voluntary organisations is indicated, but the pharmacist is ignored.

If the Ministry decides that it was necessary to postpone the call-up of doctors—and it may well be so—we submit it is at least equally necessary to suspend the call-up of pharmacists engaged in retail practice. Retail pharmacy has suffered from the call-up as much as the medical profession. There are not enough pharmacists to go round; closure notices "due to call-up" are becoming far too common. With the influenza epidemic at its peak, retail pharmacists are just as overwhelmed as are the doctors.

We therefore telephoned the Ministry and inquired if the question of the desirability in the national interest of suspending the call-up of pharmacists had been given consideration. If it was necessary to suspend the call-up of doctors, it was, we submitted, just as vital to suspend the call-up of pharmacists engaged in supplying the public with medicines. We were told that the suggestion would be referred to the proper quarter. Later, by telephone, we were advised by the Ministry that they were "in consultation with the Central Pharmaceutical War Committee on the question of deferment of call-up of pharmacists."

We took this "direct action" for two main reasons: (1) in the public interest; and (2) to ensure that the qualifications, prestige and national usefulness of pharmacists should, on this occasion, be acknowledged in official quarters.

As we go to Press we are advised that the C.P.W.C. has been informed by the Ministry of Health that, in view of the demand being made on pharmacy owing to the influenza epidemic, recruitment action has been temporarily suspended by the Minister of Labour and National Service in respect of those pharmacists and dispensers not already served with an enlistment notice.

Confusion Worse Confounded

WHAT the Council's purpose was in publishing its statement on employee organisation (*C. & D.*, December 11, p. 586), and why it chose this particular time for doing so are questions to which we do not profess to know the answers. If the published statement is the best the Council can offer after a series of conferences and meetings dating back many months, the wiser course would, we suggest, have been to preserve silence. On the face of it the statement is a "blessing" by the Society on the Association of Scientific Workers. That is to say, employee pharmacists who do not at present belong to any trade union are recommended, though not in precise terms, to join the A.S.W., which will be "in a position to recruit" pharmacists in retail and other sections of pharmacy, provided there is "recognition of the interests of the other unions."

We hold no brief for the Association of Pharmaceutical Employees. Indeed, we have consistently maintained that the only satisfactory solution to the problem of organising employee pharmacists is one in which their interests remain pharmaceutical and paramount. Pharmacists should not, on the one hand, have to depend on securing the goodwill of shop assistants, whose interests may on occasion run counter to their own nor, on the other hand, should they be liable to be required to take action on problems that affect, perhaps, a non-pharmaceutical majority of fellow members of the main Union, but do not closely concern themselves.

This said, however, there are two considerations that may well appeal to the young man just through his examinations, who is undecided which employee organisation to join. The first is that as a Scientific Worker he is just as much tied to outside interests as if he were a Pharmaceutical Employee. There is nothing to choose between them in this respect, and it is only a question whether he feels himself more of a shop assistant than a professional man; the answer will vary with individual circumstances. The other and more practical consideration is that the A.P.E., through the larger Union

of which it forms a part, has secured position of importance in that its general secretary is to be one of the joint secretaries of the new J.I.C. (see *C. & D.*, December 11 p. 597).

Far from strengthening the position of its employee members by endeavouring to unite them, the Society has further weakened their position by introducing new subdivisions. At best there is a demonstration for professionalism. At worst, the gesture is one of impotence.

Improved Cosmetics Supply

THE Board of Trade notice published in last week's issue (p. 585) giving the production quotas for January 1-June 30, 1944, indicates a slight improvement in future supplies of toilet preparations, cosmetics and powders. The news will be welcomed by the manufacturers and by harassed retailers.

Nucleus and concentrated concerns, which in the previous quota period were given a quota of 50 per cent. per annum for general toilet preparations and cosmetics (other than powders), will for the period January 1-June 30, 1944, have a quota of 75 per cent. per annum, and their quota for powders will be increased from 65 per cent. to 75 per cent. per annum for the same period. Actually, this means that their quota for the first six months of 1944 will be $37\frac{1}{2}$ per cent. for general cosmetics and $37\frac{1}{2}$ per cent. for powders of production during the standard period (June 1, 1939-May 31, 1940).

The position of non-nucleus and non-concentrated firms also shows some small improvement. Their quota for general toilet preparations, cosmetics and powders for the first six months of 1944 is fixed at $33\frac{1}{3}$ per cent. per annum of production during the standard period. This is a quota of $16\frac{2}{3}$ per cent. for the six months. Previously they were granted 20 per cent. per annum for cosmetics and 65 per cent. for powders. It will be noted they are not given a separate quota for powders and, in the cases of the comparatively few firms whose production is chiefly concerned with powders, this would mean hardship; but we are informed by the Board of Trade that no registered manufacturer will, as a result of the changed rates of licensing, receive a licence proportionately smaller than at present.

ASPECTS OF MODERN BOTANY

The opening meeting of the session of the 19th British Branch of the Pharmaceutical Society was held in Edinburgh recently.

John Anderson (vice-chairman of the Executive) in the chair. THE CHAIRMAN said it was gratifying to be able to welcome such a large audience. He referred with regret to the passing of Mr. J. B. McVitae, Glasgow, a former chairman of the Executive. Mr. McVitae would be remembered as a stalwart of Scottish pharmacy.

They were very fortunate, continued the chairman, to have the lecturer, Professor Matthews, back in Scotland, and he called on him to give the inaugural seasonal address on "Some Aspects of Modern Botany." Professor Matthews said:—

In the study of growth, irritability and reproduction are to be found some of the most recent advances in botanical science. The plant physiologist has concerned himself largely with the laws governing the course of the vegetative phase of development, and less is known about the physiology of the reproductive phase, especially fertilisation itself.

Pollination and Fertilisation

In the flowering plant, pollination is a necessary prelude to fertilisation of the ovule, involving the transference of pollen by one agent or another from the stamen to the stigmatic surface of the pistil. It has generally been assumed that cross-pollination is more effective than self-pollination in bringing about fertilisation. Ordinarily, a pollen grain germinates, forming a delicate thread-like pollen tube, which conveys two male nuclei to the embryo sac of the ovule. By the bursting of the tip of the tube, the male cells are released and almost immediately one of them fuses with the egg, thereby effecting fertilisation. But it does not follow that pollen grains will germinate because they arrive on the stigma of the flower. Growth substances, such as vitamin B₁, ascorbic acid (vitamin C), indoleacetic acid, have varying influence on different kinds of pollen. Successful germination and continued growth of pollen tubes depend upon a combination of favourable conditions. Water and food materials, supplied partly by the pollen and partly by the pistil of the flower, are essential, and in some instances hydrogen-ion concentration is a controlling factor. A favourable temperature is necessary, and the age of the pollen has also to be taken into account. Both the pollen of a flower and its stylar

tissues are liable to produce substances that may either favour pollen germination or, in certain conditions, inhibit it. Even when pollen grains germinate, the pollen tubes do not always arrive at the end of their journey. Failure in growth of pollen tubes is one cause of sterility in plants, the importance of which is evident in connexion with fruit trees.

Development of Embryo

Within a pollen tube which does successfully reach an ovule, one of the two nuclei fuses with the egg to form the zygote; from this cell the embryo develops. The second nucleus engages with two other nuclei in the embryo sac to form a triple nucleus, whose primary function is to initiate the growth of a nutritive or endosperm tissue within the ovule upon which the embryo nourishes itself. The stimulus of fertilisation extends to other parts of the flower, especially the ovary wall. In the ordinary course of events a fruit develops containing viable seed.

Parthenocarpic Fruits

In a number of plants it is possible to induce the formation of mature fruits by applying to the cut style of the flower such chemicals as indoleacetic, indolebutyric or naphthaleneacetic acid. It is possible also to induce the development of parthenocarpic fruits by the injection of such substances into the young ovaries of unpollinated flowers. Such fruits do not, of course, develop fertile seeds. A further stage in experiment is reached in the successful initiation of fruit development by the application to the style of an extract of the pollen of the plant, but the evidence in favour of growth-promoting substances having some close connexion with fruit formation would become even more convincing if it could be shown that the events of pollination and fertilisation are, in fact, accompanied by the production or liberation of such substances both in the style and in the ovary. Recent work seems to provide an answer. In unpollinated flowers of *Nicotiana tabacum* only small amounts of growth substances are formed, but considerable quantities are produced in pistils that have been pollinated. When fertilisation has occurred, relatively large amounts of growth substances are released in the ovary, whence a supply moves down the fruit stalk to prevent the formation of an absciss layer.

Embryos in Culture Media

One of the first structural changes after fertilisation of the ovule is the deposition of a wall round the fertilised egg. Young embryos have been successfully excised for a study of their further development in culture media. The earliest stages in the growth of the embryo may require not only its ordinary supply of food but also a supply of accessory factors. The plant physiologist is perhaps on surer ground when he turns to germination. The emergence of the young root is characterised by its regular tendency to grow vertically downwards, while the young stem grows in the opposite direction. If a young root is decapitated by removing about 2 mm. of its tip, no geotropic curvature occurs when it is placed horizontal. If the apex of a stimulated root is cut off and placed on the stump of an unstimulated root, a geotropic curvature is produced. The apex thus appears to be the region of perception of stimulus, but growth curvature occurs at some distance behind the apex, and it must thus be assumed that conduction of the stimulus has been brought about. The most recent hypothesis is the hormone theory of geotropism. According to this the root apex produces a growth-promoting substance which becomes unequally distributed in the growing region of a root under geotropic stimulation. A root placed in a horizontal position receives a greater concentration of the substance on the lower than on the upper side. The root hormone is a growth-inhibiting substance, and growth occurs more rapidly where its presence is least.

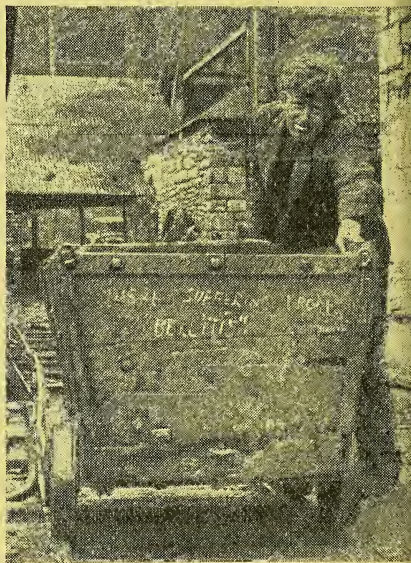
Auxins

Thus a downward curvature of the root is brought about. The general term auxin has been proposed for the growth-regulating substances found in plants, and several have been isolated in pure crystalline form. The auxin produced in the root apex is found also in the apex of the stem, but in this organ its effect is the reverse of its action upon the root. If the young stem of a plant is placed in a horizontal position, the greater concentration of auxin is on the lower side as before. But here the auxin stimulates growth of the stem along the lower side, with the result that an upward curvature is effected. Specific chemical substances are produced at every stage.

Votes of thanks were proposed to the speaker on the motion of PROFESSOR SIR WILLIAM WRIGHT SMITH, seconded by DR. BLACKIE, and to the chairman by PROFESSOR DRYERRE.

A PHARMACIST MINER

AN interview with Mr. David Llewellyn Thomas, M.P.S., an "optant" for work in the coal mines, was recently published in the "Bath Chronicle and Herald." Mr. Thomas is thirty years of age and has been working at Braysdown Colliery for nearly month. He served his apprenticeship with Mr. F. R. Stent, Bath, qualified in 1931 and until quite recently was employed by Mr. G. Rowland Baker, M.P.S., Bristol. A



the expiration of his deferment he was given the option of serving as a stoker in the Royal Navy, as a marine, or as a miner. "I am getting more used to it now," he said in the interview, adding that the "regulars" at the mine had been very helpful and friendly. The hours worked are from 6 a.m. to 3 p.m. daily in Mr. Thomas's present shift. In about a fortnight's time, when he expects to go underground, they will be from 6 to 2. The wages are £4 3s. net weekly (including bonus for quota production at the mine). Below ground, the work yields an extra threepence per shift (i.e. 1s. 6d. weekly).

The Year's Total.—Retailers, wholesalers and manufacturers are asked to make a special effort to increase their salvage collection of waste paper up to the end of the year. Some thousands of tons are required to reach the target.

INJUNCTION AGAINST ALLEGED "PASSING-OFF"

the Chancery Division, London, on December 9, Coty (England), Ltd., Stratford Place, London, W., claimed an injunction against Mr. A. L. Flewitt, chemists' sundriesman, High Road, Ilford, to restrain him from passing-off goods not of plaintiffs' manufacture or merchandise as and for their goods, and for selling face powder not manufactured by them under the name Coty, or any name colourably differing therefrom. Defendant denied the allegation.

Evidence of Purchase

For the plaintiffs, it was stated, that in January 1943 they received a complaint from a member of the public about face powder she had purchased as Coty powder, and the powder was found to be an inferior substitute. She gave the address of the shop at which she had purchased it. On January 11, an employee of the plaintiffs went there, saw powder exposed for sale under the name Coty, and purchased $\frac{1}{2}$ oz. for 1s. 6d. The powder was found to be not of plaintiffs' manufacture. A writ was sued against Mr. William Henry George Barrett, hairdresser, Laindon, who had sold the powder; he protested his innocence and alleged that he had bought the powder on the genuine belief that it was the plaintiffs'. Mr. Barrett submitted to the relief which was sought, and plaintiffs were informed by him that he had bought the powder from Mr. Flewitt. On the advice of his solicitor Mr. Barrett sent Mr. Flewitt an order for a further supply of Coty powder and this was now admitted not to be of plaintiffs' manufacture. He had asked the defendant to supply, among other goods, "one round Coty powder." His lordship would have to determine whether this spurious powder was represented to be Coty powder.

Treated as a Joke

In his affidavit denying any passing-off, Mr. Flewitt said he treated Mr. Barrett's request for one pound of Coty powder as a joke, because this powder was in extremely short supply. He said he had never been able to secure any. When Mr. Barrett called for the goods he asked him what he meant by his reference to Coty face powder in the order and added: "I hope you are not selling my face powder as Coty face powder," or words to that effect. Mr. Barrett said he was, and Mr. Flewitt advised him not to do so because the powder certainly was not Coty powder. Mr. Barrett,

according to Mr. Flewitt, replied: "I don't care a damn." Mr. Barrett gave evidence in support of the plaintiffs' case, and denied admitting that he was selling the powder as Coty, or that he said he "did not care a damn." No such conversation took place. Mr. Flewitt said that he sold the powder to Mr. Barrett as a job lot. He never asked Mr. Barrett if he could do with some Coty face powder, and Coty was never mentioned during that interview. The goods were invoiced as face powder. It was quite untrue that he had ever attempted to pass off as Coty powder any powder not of plaintiffs' manufacture.

Entitled to Injunction

Giving judgment, Mr. Justice Morton said there was a direct conflict of evidence, but he had arrived at the conclusion that Mr. Barrett's evidence was truthful and was to be accepted. Plaintiffs were entitled to the injunction claimed.

MEXICAN DRUG PLANTS

ACCORDING to "Foreign Commerce Weekly," published by the United States Department of Commerce, eight important plants, hitherto grown mostly at great distances from the United States, are being introduced into Mexico. The plants include belladonna, red squill, senna and peppermint. After the war, it is expected that Mexico will continue growing some or all of these plants. This would supplement other sources, chiefly in Europe and around the Mediterranean, from which they have been imported by the United States. Mexico would be aided by the agricultural diversification provided by the new crops. Cultivation of these crops is being fostered under the programme of inter-American co-operation to develop the hemisphere's resources. A United States mission has already established ten stations in Mexico for starting nurseries of these plants. The main plants are red squill, pyrethrum, belladonna, senna, derris, peppermint, henbane and stramonium. In addition, the United States mission is helping Mexico to produce more agar.

CLOSED ON SATURDAYS.—Advertisers and subscribers are reminded that owing to war conditions the Head Office of THE CHEMIST AND DRUGGIST, 28 Essex Street, London, W.C.2, is closed on Saturdays until further notice. Urgent instructions relating to advertising and subscriptions should be sent to the C. & D., 17 Argyle Street, Bath, Somerset.

PHARMACY IN FRANCE TODAY

No drugs, chemicals or medicinal plants can today be imported into France from overseas. There is such a shortage of containers both of glass and of metal that every customer must bring his empty bottle, tube or jar. The "black market," that gangrene that follows in the wake of the Axis armies, hoards, buys and sells at fabulous prices anything from saccharin to quinine. Owing to malnutrition, certain diseases are on the increase and more drugs are needed. The manufacturing chemist and subsidiary industries have to face the continued demand for more workers to be sent to Germany.

Private hoarders account for some shortage but they usually seek patent medicines. One lady in the country recently wrote to the manufacturers of a famous remedy: "Dear Sirs,—Being in the habit of taking your speciality . . . , this having become necessary to my life, I was obliged by recent happenings to build up a stock. First I bought from all the local chemists, then I got friends to buy in neighbouring towns. Finally I persuaded my doctor to buy still more. I managed to collect about one hundred bottles, and I am writing to ask you to exchange them for something else, because I have noted that the efficacy of your product is much diminished."

New Specialities

Great efforts have been made to find substitutes, and French home production has increased by 40 per cent. in two years. New specialities are not allowed on the market without a permit from the Organising Committee for Pharmaceutical Products. The most serious problem is the shortage of insulin, and diabetics are most strictly rationed. The pigs from whose pancreas the insulin was prepared have mostly "gone to market over the Rhine," to use the colloquial euphemism. No new substitute has been found for quinine, but stocks are sufficient for two years more, it is believed. Lanolin has disappeared, and has been replaced by synthetic fats. Synthetic caffeine and theobromine are also being manufactured. By a law passed on September 11, 1941, no new speciality may be put on sale before it has been analysed by a commission, which in 1942 threw out 50 per cent. of the preparations proposed.

All bottles and boxes brought in by customers are returned to the manufacturers, and tubes are melted down. Paris alone collects a ton of tubes daily, and the

northern zone of France (since the occupation of Vichy France, the two zones are known as north and south) collects 1,300,000 bottles monthly. Until the occupation of Vichy France, the country was cut in half, and there was practically no possible communication between the two. Now it is easier to travel from one zone to the other and the manufacturers will doubtless try to recapture the trade they lost for more than two years. There are still restrictions, and newspapers, manuscripts, etc., may not be sent from one zone to the other. Perfumery is still being made at fabulous prices, and a little is exported, but in Portugal, for example, almost the nearest importing country, the cost of French perfumery is prohibitive. The luxury trade altogether is very badly hit, but its practitioners have not lost their sense of humour. They continued to dress their windows as before the war until one day there were outcries from certain people at such a display of luxury in a starving city. The Vichy Government, whose device is sackcloth and ashes, thereupon gave orders to restrict the display. Immediately the smart shops in the Faubourg St. Honoré, Rue Royale and Rue de la Paix covered their windows with whitewash, leaving only a small aperture through which could be glimpsed perhaps a single bottle of perfume.

Herbal Preparations

The French were great drinkers of tisanes or infusions, and lime and chamomile tea were very popular. Even these plants, many of which grow in France, have increased in price, and those which are used in more serious formulas have almost disappeared. Most French herbs now cost ten times as much as in 1939. Lime flowers and leaves now cost over 10s. per lb.; cornflowers, 20s.; poppy, 7s.; bracken root, 2s. The "black market" racketeers are responsible in part for these prices. Chemists are trying to replace the boldo of Chile by rosemary or French artichoke, cascara by alder buckthorn, cocaine by gentian leaves. They complain that the cultivation and picking of French herbs has been allowed to become neglected to such an extent that in one pre-war year over three thousand tons of herbs belonging to common French species were imported from abroad. In one year 270 tons of *chiendent* came into the country—a weed which is the curse of all French farmers.

TRADE REPORT

ot quotations for pharmaceutical chemicals, crude drugs and essential oils represent the prices for wholesale quantities of standard quality. C.i.f. quotations do not include marine war risk insurance and other abnormal charges payable in the present emergency

28 Essex Street, W.C.2, December 15

HE general tone in most of the markets continues steady, with extremely few changes in prices, either in or against buyers' favour. Business as a whole shows practically no improvement on the dull conditions reported last week. Among the PHARMACEUTICAL CHEMICALS there is little interest to record, business being generally confined to sales of limited quantities, with supplies of some items rather severely restricted. No important price movements have occurred.

Crude Drugs

Business in these commodities has continued on the quiet, steady note reported throughout recent weeks, with values in most instances fully maintained. There is little likelihood of any improvement in business in this section until the turn of the year, and only then if supplies become available in greater compass. Spot supplies of Cape ALOES are exhausted, but a price for shipment is indicated from source. MACA NUTS may now be obtained on spot. BALSAMS are without quotable change on the week. A steady but exceedingly modest business is passing in Sumatra BENZOIN. As noted last week, allocations have been granted for BUCHU LEAVES. SPICES, including CARDAMOMS, CHILLIES, CLOVES, NUTMEGS and PIMENTO, have again had a quiet week, with trading on a restricted scale at unchanged values. Fine white COLOCYNTH PULP may still be obtained on spot. ERGOT is exceedingly firm, and in rather limited supply. GALANGAL ROOT is quoted a shade higher. Kordofan GUM ACACIA is inactive, with the price at the lower level recorded last week. IPECACUANHA is wanted, but no stocks are available on spot. Brazilian JALAP ROOT appears to have been cleared from first hands, and no further licences are being granted. The position with regard to MENTHOL is unchanged. Two changes have occurred in SEEDS: a reduction in Indian CORIANDER and an advance in DILL. WAXES are steady.

Essential Oils

Little of interest has transpired in this section during the week. Prices of remaining supplies of uncontrolled oils show no change from recently-quoted figures, and

no new information has come to hand regarding controlled materials. ANISE (STAR) is again in considerable request, but spot supplies are difficult to find. English distillers' prices for CLOVE are maintained at recent levels. EUCALYPTUS is in poor supply. Among the SYNTHETICS and ISOLATES two changes are noted: advances in GERANIOL and GERANYL ACETATE. These materials remain in short supply, all available stocks in some instances being required for essential purposes.

Pharmaceutical Chemicals

ASPIRIN.—In good demand. Makers' prices per lb., in quantities of 28 lb.—1 cwt., are as follows (containers in brackets): 4s. (1-lb.); 3s. 10½d. (4-lb.); 3s. 9½d. (7-lb.); 3s. 9d. (14-lb.); 3s. 8½d. (28-lb.).

BARIUM SULPHATE (x-ray).—Quoted at the following rates per lb. in quantities of 28 lb.—1 cwt. (containers in brackets): 1s. 5½d. (1-lb.); 1s. 4d. (4-lb.); 1s. 3d. (7-lb.); 1s. 2½d. (14-lb.); 1s. 2d. (28-lb.).

BISMUTH CO., PULV., N.F.—Makers' prices per lb., in quantities of 28 lb.—1 cwt., are as follows (containers in brackets): 2s. 3½d. (1-lb.); 2s. 2d. (4-lb.); 2s. 1d. (7-lb.); 2s. (28-lb.).

BORIC ACID.—Makers' quotations are unchanged: B.P. granulated, £60 15s. per ton; crystal, £61 15s.; powder, £62 15s. Packed in one-cwt. bags, delivered carriage paid in Great Britain, in one-ton lots and upwards. Commercial grades, £8 per ton less.

BROMIDES.—POTASSIUM is quoted by makers at the following prices per lb., in lots of from 28 lb. (containers in brackets): 3s. 5½d. (1-lb.); 3s. 3½d. (4-lb.); 3s. 2½d. (7-lb.); 3s. 2¼d. (14-lb.); 3s. 1¾d. (28-lb.). SODIUM, ¾d. per lb. extra; AMMONIUM, 2½d. per lb. extra; powder, 2d. per lb. extra.

CODEINE.—Makers' prices per oz. are as follows: ALKALOID.—½ oz., 48s. 3d.; 1 oz., 45s. 9d.; 2 oz., 44s. 3d.; 3 oz., 43s. 6d.; 4 oz., 43s. 3d. HYDROCHLORIDE.—½ oz., 42s.; 1 oz., 39s. 6d.; 2 oz., 38s.; 3 oz., 37s. 3d.; 4 oz., 37s. PHOSPHATE.—½ oz., 37s. 9d.; 1 oz., 35s. 3d.; 2 oz., 33s. 9d.; 3 oz., 33s.; 4 oz., 32s. 9d.

CREAM OF TARTAR.—Quoted by British makers at 262s. per cwt.; less 2½ per cent. discount.

DIAMORPHINE.—Current rates per oz. for small quantities are as follows: ALKALOID, ½ oz., 54s.; 1 oz., 51s. 6d.; 2 oz., 50s.; 3 oz., 49s. 3d.; 4 oz., 49s. HYDROCHLORIDE.—½ oz., 49s.; 1 oz., 46s. 6d.; 2 oz., 45s.; 3 oz., 44s. 3d.; 4 oz., 44s.

ETHERS (METHYLATED).—Makers' prices per lb., in Winchester quarts, are as follows: 0.750, 1s. 5½d.; 0.735, 1s. 5½d.; 0.730, 1s. 5½d.; 0.725, 1s. 7½d.; 0.725 (triply rectified), 2s. 0½d.; 0.720, 1s. 8½d.; 0.717, 2s. 2½d.; 0.720, B.P. (not for anaesthesia), 1s. 10d.

ETHYLMORPHINE.—Prices per oz. for small quantities are as follows: ALKALOID, 51s.; 1 oz., 48s. 6d.; 2 oz., 47s.; 3 oz., 46s. 3d.; 4 oz., 46s. HYDROCHLORIDE, ½ oz., 43s.; 1 oz., 40s. 6d.; 2 oz., 39s.; 3 oz., 38s. 3d.; 4 oz., 38s.

GLUCOSE.—Bulk home-trade prices per lb. for powdered monohydrate are as follows (containers in brackets): 1s. 1½d. (1-lb.); 1s. 0¾d. (2-lb.); 1s. (4-lb.); 11d. (7-lb.); 10¾d. (14-lb.); 10d. (28-lb.).

IODINE PREPARATIONS.—Prices per lb. for the home market are as follows: POTASSIUM IODIDE, B.P.—112 lb., 9s.; 28 lb., 9s. 6d.; 14 lb., 10s.; 7 lb., 11s. 6d.; 4 lb., 12s.; smaller quantities, 12s. 6d. SODIUM IODIDE, B.P.—28 lb., 9s. 11d.; 14 lb., 10s. 5d.; 7 lb., 12s. 2d.; 4 lb., 12s. 10d.; smaller quantities, 13s. 8d. IODOFORM, B.P.—28 lb., 12s. 10d.; 14 lb., 13s. 4d.; 7 lb., 15s. 6d.; 4 lb., 16s. 4d.; smaller quantities, 17s. 2d. IODOFORM CRYSTALS.—2s. per lb. above powder prices. IODINE RESUBLIMED, B.P.—112 lb., 10s. 4d.; 28 lb., 10s. 10d.; 14 lb., 11s. 4d.; 7 lb., 13s. 1d.; 4 lb., 13s. 9d.; smaller quantities, 14s. 6d. per lb.

MAGNESIUM CARBONATE, HEAVY.—Makers quote for the home trade the following prices per lb. in quantities of 28 lb.—1 cwt. (containers in brackets): 1s. 6½d. (1-lb.); 1s. 5d. (4-lb.); 1s. 4d. (7-lb.); 1s. 3½d. (14-lb.); 1s. 3d. (28-lb.). Prices net one month.

MAGNESIUM OXIDE, LIGHT.—Makers' prices per lb. for the home market, for quantities of 28 lb.—1 cwt., are as follows (containers in brackets): 2s. 8d. (1-lb.); 2s. 6½d. (4-lb.); 2s. 5½d. (7-lb.); 2s. 5d. (14-lb.); 2s. 4½d. (28-lb.).

MAGNESIUM TRISILICATE.—Makers quote for the home market, in quantities of 28 lb.—1 cwt., as follows (containers in brackets): 3s. 6½d. per lb. (1-lb.); 3s. 5d. (4-lb.); 3s. 4d. (7-lb.); 3s. 3½d. (14-lb.); 3s. 3d. (28-lb.).

MERCURY IODIDES.—The following are makers' prices per lb.: RED, less than 7 lb., 20s. 8d.; not less than 7 lb., 20s. 2d.; not less than 14 lb., 19s. 8d. GREEN, less than 7 lb., 28s. 8d.; not less than 7 lb., 26s. 2d.; not less than 14 lb., 25s. 8d. YELLOW, less than 7 lb., 28s. 1d.; not less than 7 lb., 27s. 7d.; not less than 14 lb., 27s. 1d. net, carriage paid.

POTASSIUM PERMANGANATE.—Makers quote B.P. at 1s. 10d. per lb.

SULPHANILAMIDE.—Current prices range from 10s. 6d. to 12s. 6d. per lb., according to quantity.

TARTARIC ACID, B.P.—Quoted by British manufacturers at 3s. 1½d. per lb.

VANILLIN.—Current rates per lb. are as follows: 5 cwt., 21s. per lb.; 1 cwt., 21s. 3d.; 56 lb., 21s. 6d.; less than 56 lb., 21s. 9d.

Crude Drugs

AGAR.—Small supplies may be had by approved users for bacteriological purposes at 65s. to 75s. per lb.

ALOES.—The spot market for Cape has been cleared but the price indicated from South Africa is in the neighbourhood of 75s. per cwt., c.i.f.

ARECA NUTS.—Supplies may be obtained on spot at 110s. per cwt.

BALSAMS.—Softish *Tolu*, in limited compass, may be had on spot at 15s. 6d. per lb.; *Canada*, unchanged at 10s. 6d.; *Peru*, 8s. 3d., duty paid; *Copaiba* is unobtainable.

BELLADONNA.—Indian leaf is quoted at 5s. 3d. to 5s. 6d. per lb. on spot; Indian root, 4s. to 4s. 6d. per lb., both according to test.

BENZOIN.—Steady but small business in Sumatra block at £25 per cwt. Free "almonds," £35. Supplies for non-pharmaceutical purposes require the consent of the Director of Medical Supplies.

BUCHU LEAVES.—New allocations have now been granted; price at origin is in the region of 4s. 6d. per lb., c.i.f.

CAMPHOR.—Dealers continue to sell small amounts of Chinese crude (93 per cent.) to approved buyers at 10s. per lb., and B.P. at 11s. 6d.

CARDAMOMS.—Little request is being received; prices are unchanged. Aleppy greens, spot, 5s. 6d. per lb.; Aleppy seed, 6s. 6d.; split seed, 5s. 6d.

CASCARA SAGRADA.—As noted last week, allocations have been made at 260s. per cwt. for regular buyers.

CHAULMOOGRA.—*Hydnocarpus*, spot, tins in cases, 1s. 7d. per lb.; afloat, 1s. 3d. per lb., c.i.f.

CHILLIES.—Mombasa continues to be offered at 120s. per cwt.; no other varieties are available.

CLOVES.—Zanzibar quoted on spot at 1s. 5½d. per lb.; second quality, to arrive, 10d. per lb., c.i.f., sellers.

COCHINEAL.—Spot price of blacks, for medicinal use only, remains at 4s. 6d. per lb.

COLOCYNTH.—Spot supplies of fine white pulp are available at 3s. 3d. per lb., duty paid.

DIGITALIS LEAVES.—Portuguese leaves are unchanged on spot at 135s. per cwt.; English-grown leaves, 2s. 6d. per lb.

DRAGON'S BLOOD.—Dull Zanzibar drop remains the only variety available; price on spot would be £21 per cwt.

ERGOT.—Very firm, but prices are unchanged. Sound, spot, 5s. 9d. per lb.; wormy, 5s. 6d.; shipment, 4s. 9d. per lb., c.i.f.

GALANGAL ROOT.—Quoted at 105s. per cwt., in bond, Liverpool.

GUM ACACIA.—Market remains inactive, prices unchanged. Kordofan cleaned sorts, spot, 85s. per cwt.; bleached, shipment, 140s., c.i.f. Talha, cleaned, 50s. per cwt., landed.

IPECACUANHA.—In considerable request, but supplies are available. Current prices of EXT. ECAC. LIQ. are as follows: Winchester, B.P., 32, under three, 32s. 6d. per lb.; three and under six, 32s.; six and under twelve, 31s. 6d.; twelve and over, 31s.; B.P., 1914, under three, 3s. 6d.; three and under six, 30s.; six and under twelve, 29s. 6d.; twelve and over, 29s. 6d.; all prices quoted are on a net basis.

JALAP.—Brazilian root seems to be cleared from first hands, and no further licences are being issued.

MENTHOL.—Some small spot parcels may be available at 95s. per lb.

NUTMEGS.—West Indian, spot, wormy and broken, 1s. 5d. per lb.; sound unassorted, 1s. 8d.

NUX VOMICA.—Without quotable change on the week. Washed and garbled Cochinchina, spot, 2s. 6d. to 45s. per cwt., according to seller; shipment, 35s., c.i.f. Cocanada, spot, 37s. 6d. per cwt.; shipment, 32s. 6d., c.i.f.

ORANGE PEEL.—Spot quotations for Spanish bitter quarters are steady at 4s. 3d. per lb.; good-quality thin-cut, 4s. 6d.

PIMENTO.—Sellers on spot at 1s. 9d. per lb.; shipment prices are not quoted.

RHUBARB.—Demand continues fair, with values unchanged. Rough-round, spot, 8s. per lb.; flat, high-dried, rough-coat, 8s. 3d. per lb.; Rhensi pickings, 11s.

SEEDS.—Price of Indian CORIANDER is lower this week, while that of DILL shows an advance. Current rates are as follows: CORIANDER.—Indian, 80s. per cwt. CUMIN.—Maltese, spot, 20s.; Indian, 110s. DILL.—167s. 6d., ex wharf Glasgow; 160s. ex wharf London. FENNEL.—Nominal at 87s. 6d. FENUGREEK.—May be had at 80s. MUSTARD.—Controlled prices are unchanged.

SENNA.—Alexandrian medium pods are at 4s. 9d. to 4s. per lb.; Tinnevely, manufacturing grade, 6d. to 7½d.; hand-picked, 10d. to 1s. 6d.; broken Alexandrian leaves, 1s. 3d. to 1s. 4d.; siftings, 1s. 2d.; Tinnevely No. 1, 9d. to 10½d.; No. 2, 7d. to 7½d.; No. 3, 5½d. to 6d.

STROPHANTHUS.—Kombé 100 per cent. seed continues to be priced at 10s. to 10s. 6d. per lb., according to quantity.

TRAGACANTH.—In steady request at unchanged rates. The principal medium grades are quoted as follows: No. 1, white, £130 per cwt.; No. 2, white, £115; No. 3, white, £102; No. 4, white, £83; pale leaf, £65; amber leaf, £55; dark amber, £40; brown leaf, £30; red-and-brown leaf, £28; red leaf, from £22; hoggy, from £12 to £15.

TURMERIC.—Prices are considerably lower on account of almost complete lack of interest. Madras finger, sound-quality, 50s. per cwt.; wormy, half a crown less.

WAXES.—BEES'.—Obtainable only through the Association of Merchant Distributors of Beexwax. CARNAUBA.—Steady at last week's prices. Fatty grey, spot, 425s.; chalky grey, 415s.; Primeira, 535s. per cwt.

Essential and Expressed Oils

ANISE (STAR).—In considerable request. Spot, if available, would be at about 80s. per lb.

CITRONELLA.—Ceylon, spot, about 21s. 6d. per lb.; Java, approximately 25s.

CLOVE.—English distillers' prices for genuine B.P. oil are unchanged at 11s. 6d. to 12s. per lb.

EUCALYPTUS.—Oil containing 70 to 75 per cent. cineole would be worth about 5s. 9d. per lb., in drums; 80 to 85 per cent., approximately 6s.

GERANIUM.—Genuine North African oil may be obtained on spot at from 85s. to 90s. per lb., according to quantity.

GINGER.—English distilled oil is priced at about 90s. per lb.

GINGERGRASS.—In limited supply on spot; price, about 22s. 6d. per lb.

LEMONGRASS.—Any, available spot supplies would be worth approximately 13s. 6d. per lb.

NUTMEG.—Oil from West Indian nutmegs is quoted on spot at around 42s. per lb.

PATCHOULI.—Spot, if available, would be worth about 72s. 6d. per lb.

PEPPERMINT.—Chinese oil is priced at about 120s. per lb.

PETITGRAIN.—In limited supply on spot at about 25s. per lb.

Synthetics and Isolates.—Supplies of many of these products remain short and are not necessarily available because prices are quoted. In some cases all available stocks are required for essential purposes. AMYL ACETATE.—Pure, about 130s. per cwt.; technical, 109s. per cwt.; small quantities would be worth up to about 2s. per lb. AMYL SALICYLATE.—About 5s. per lb. BROMSTYROL.—100 per cent., about 30s. per lb. BUTYRIC ACID.—Now being manufactured in England; price about 7s. per lb.; esters from British-made butyric acid are also available. CINNAMIC ALDEHYDE.—Quoted at around 9s. per lb. CITRAL.—Chemically pure, about 55s. per lb. CITRONELLAL and CITRONELLOL.—Both nominal at 60s. to 70s. per lb. COUMARIN.—Quoted at approximately 17s. 6d. per lb. ETHYL PHTHALATE is not quoted. EUCALYPTOL.—About 13s. per lb. EUGENOL.—Around 23s. 6d. per lb. GERANIOL.—Dearer at about 80s. per lb., ex palmarosa oil. GERANYL ACETATE.—Approximately 85s. per lb. IONONE.—100 per cent., around 75s. per lb. ISO-EUGENOL.—About 25s. 6d. per lb. RHODINOL.—From African geranium oil, about 150s. per lb.

“C. & D.” Quiz No. 17.—The answers to the questions given on p. 621 are: 1. 10th century; the Patriarch of Jerusalem recommended it to Alfred the Great. 2. From Saxon foxes-glew; a musical instrument, with bells on an arch-like support. 3. Lin. sap, camph. 4. Emulso olei arachis. 5. Argent. nit. mitig. 6. Jute. 7. Urethane. 8. Pig. menthol et toluen. 9. Stillin-gia, from *S. sylvatica*. 10. Procaine, diethyl-amino ethyl-*p*-aminobenzoate.

TRADE MARKS

(From "The Trade Marks Journal," November 24)

- "MICRYSTON"; for medicinal preparations and pharmaceutical preparations and substances (5). By W. Fletcher, Normanhurst, Rusper, Horsham, Sussex. 624,632.
- "PLANALTAN"; for all goods (5). By May & Baker, Ltd., Dagenham, Essex. 624,752 (Associated).
- "DICUMAROL"; for pharmaceutical substances for human and veterinary use (5). By Glaxo Laboratories, Ltd., 891-95 Greenford Road, Greenford, Middlesex. 624,793.
- "CORTHYDROPHON"; for medicinal chemicals (5). By Organon Laboratories, Ltd., Brettenham House, Lancaster Place, London, W.C.2. 624,796 (Associated).
- "COVEGA"; for pharmaceutical preparations (5). By Shadforth Prescription Service, Ltd., 63 Grove Road, Bow, London, E.3. 624,813.
- "MEXO"; and "MEXI"; for sanitary towels, bandages, dressings, plasters, cellulose wadding and medicated toilet paper (5). By A. Carus & Sons, Ltd., Johnson Road, Hoddlesden, Darwen, Lancs. 624,814, 625,272 (both Associated).
- "DENOCAE"; for weed killers and vermin destroyers (5). By Pest Control, Ltd., Harston, Cambridgeshire. 624,874 (Associated).
- "SULFEDEX"; for pharmaceutical and veterinary substances, being sulphur compounds (5). By Abbott Laboratories (England), Ltd., Wadsworth Road, Perivale, Middlesex. 625,172.

(From "The Trade Marks Journal," December 1)

- "PROMISE OF LOVE"; for perfumery and non-medicated toilet preparations (3). By D. S. Badwal & Co., Westview, Skiddaw Road, Marton, Blackpool. 624,873.
- "GRAMINON"; for weed and vermin destroyers, insecticides, disinfectants, etc., none being for human use (5). By J. R. Geigy, Société Anonyme, 215 Schwarzwaldallee, Basle 16, Switzerland. 622,792 (Associated).
- "VITONEX"; for pharmaceutical preparations in tablet form, all containing chlorophyll (5). By Brook, Parker & Co., Ltd., Ashfield, Horton Road, Bradford. 623,390.
- "CHIRENE" under device of winged foot; for pharmaceutical preparations for treatment of the feet (5). By Classics, Ltd., Mount Pleasant, Wembley. 623,654.
- "PRANG"; for insecticides and vermin-destroying preparations (5). By Cimex, Ltd., Sevenoaks Road, Pratt's Bottom, Farnborough, Kent. 623,805.
- "ANGELUS"; for pharmaceutical preparations for internal use (5). By J. E. Cross, 71 Hounds Gate, Nottingham. 623,901 (Associated).
- "OPIT"; for pharmaceutical preparations and substances, and medicinal preparations for human use (5). By Milner & Coke, Ltd., 11 John Penn Street, Lewisham, London, S.E.13. 623,926.

MISCELLANEOUS INQUIRIES

A Medicated Plaster.—S. B.—The word "arnicated" would hardly be a sufficient disclosure, for the purpose of the 1941 Act, of the medicaments used, and the amount of medicament would also have to be given.

Asthma Pillows.—S. R. C.—The non-allergic material which is recommended for asthma pillows is the finest Java kapok. We understand, however, that only re-claimed and purified kapok is now available. Kapok is controlled, and before obtaining any supplies you would have to procure a permit from the Ministry of Supply, Kapok Control, Washington Hotel, Chester.

Ginger Wine Essence.—C. W.—Ginger wine essence, non-alcoholic, may no longer be manufactured and offered for retail sale. Ginger wine cordial may still be made, but licences are issued only to manufacturers who were making this type of preparation before the war. If you require further information, you could write to the Ministry of Food, Portman Court, Portman Square, London, W.1; or to the Soft Drinks War-time Association, Ltd., 42 Upper Grosvenor Street, London, W.1.

Fermentation of Cough Mixture.—D. B.—You do not give the full list of ingredients of your cough mixture, so we are unable to say whether the fermentation is due to the liquorice juice, but you could ascertain this by making up a small quantity without this ingredient. If it proves to be the cause, you could overcome the difficulty either by the addition of a suitable preservative, or by adding chloroform or chloroform water. The latter might modify the taste, but no doubt this would be accepted as a war-time measure.

Direction of Stirring.—E. G.—It cannot, so far as we are aware, make any discernible difference to the end-product of a mixture or emulsion whether the stirring is clockwise or counter-clockwise, but there are two practical considerations which make it advisable to have a method and remain constant to it. The first is that in making an emulsion the stirring should be in one direction throughout, otherwise you may break the emulsion you are trying to make. The second is very succinctly put by Mr. T. B. Wickham, Ph.C., in a letter to the "Journal of the Naoctic": "When mixing powders, or making a solution, in a mortar, always stir towards you. When using your right hand stir anti-clockwise, but if you use your left hand then stir clockwise. In that way you will see what you are doing."

CORRESPONDENCE

Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor

A Contrast

SIR,—May I thank "I.Dealist" (*C. & D.*, November 27, p. 556) for his letter, concerning my letter of November 6, in which I wrote that one enters a profession to give and a trade to get. If pharmacy has failed to gain its rightful place alongside the other professions, it is the fault of those who practise it. Let us live up to the American ideal and we shall occupy the place which is rightfully ours. If we fail to live up to the ideal, we cannot expect to receive the recognition we desire, and the fault will lie with us and not with those whom we seek to blame.

Yours faithfully,

Grantham.

JOHN CHESHIRE.

State-Aided or State-Provided?

SIR,—A comprehensive scheme of State medical service for 80 to 90 per cent. of the nation is inevitable in the near future, and there is much controversy and heart-burning amongst doctors and pharmacists on matters of procedure and terms of service. Medical men, in the main, are against the complete nationalisation of medicine, and are determined not to be mere civil servants on a salaried basis. It is pretty evident, too, that most people will wish to retain their own freedom of choice in the matter of the family doctor and chemist. Various suggestions have been forthcoming, such as widening the scope of the present National Health Insurance scheme to include all participants in the Beveridge plan, etc., though it is obvious that, before complete agreement could be reached in this direction, drastic revision would be necessary in the scale of emoluments both to doctors and chemists, in order to adjust the otherwise serious loss of the private consulting and dispensing fees. There is also the probability that such a scheme would be abused, as experience of the present National Insurance makes it evident that many people who waste the doctor's time on minor ailments in order to get a bottle of medicine would think twice before running up doctor's and chemist's bills. Surely a State-aided rather than a State-provided medical scheme, such as is already practised in some of the Scandinavian countries, would meet most of these objections. The scheme would be sponsored by the State under the following rough plan—

GENERAL PRACTITIONER.—Patients would continue to consult their family doctor at a stated fee (say 5s.).

SPECIALIST AND SURGERY.—Patients would be directed to a specialist by their general practitioner as at present. A sliding scale of fees to be agreed by the State and a board of medical advisers.

DISPENSING.—All prescriptions to be dispensed by pharmacists at normal private dispensing rates.

Doctors and chemists would tender their accounts to the patient in the usual way, and the patient would pay 25 per cent. of these amounts, the remaining 75 per cent. of both doctors' and chemists' bills being paid by the State. Under these conditions the competitive spirit would be retained, the patient, being responsible for a quarter of the cost of service, would value it all the more and be much less likely to bother the doctor unnecessarily. The principle of patients paying part of the cost of treatment and appliances has already been adopted by the Approved Societies with much satisfaction and success. Practically all the abuses and disadvantages of the existing National Health service would be eliminated, and Insurance Committees, Clerks and offices, having much less in the way of detailed work to do, would probably be able to cope with the very much increased membership and also use their offices as clearing houses, etc., without a big increase in their staffs.

Yours faithfully,

DONALD H. MOORE.

Weston-super-Mare.

Borax as Insecticide

SIR,—In the December 4 issue of the *C. & D.* (p. 581), under "Miscellaneous Inquiries," you published a note to "J. A." on insecticides. May we draw the attention of your readers to the excellent results obtained from the use of borax or boric acid for the elimination of cockroaches and other pests. Borax, mixed with pyrethrum, or as one of the ingredients of insecticide powders, has, of course, been in use for many years; but recently, owing to the scarcity of pyrethrum, the Ministry of Food specially recommended the use of borax alone for the purpose, and the Ministry of Supply has agreed to release reasonable supplies of the product. Borax is particularly recommended in bakehouses and kitchens, because it is non-toxic and can

therefore safely be used in establishments where food is handled. The material is slower in action than pyrethrum, but should effect a 95 per cent kill in nine days. The powdered variety is generally used, and it should be sprinkled in the haunts of the insects, the use of powder bellows ensuring better penetration of cracks and crevices. A mixture consisting of equal parts of borax and sugar or flour is said to be more effective as an insecticide than borax alone.

Yours faithfully,
BORAX CONSOLIDATED, LTD.
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Employee Organisation

SIR,—Part two of the report of the Committee of Inquiry states (p. 19), under "Activities of the Society," "Representation of Employed Pharmacists: There is at present no organisation which appears adequately to represent the interests of employed pharmacists, although various trade unions accept pharmacists as members. It seems desirable that the Society should, so far as its powers permit, endeavour to bring such an organisation into existence and assist it during its early days." In my opinion the need for the maximum degree of craft solidarity is very real, apart altogether from the question of employee economics, which is unjustly regarded as the sole motive of employee organisation. Employment is outstripping proprietorship, and the employment is increasingly frankly commercial. The risk of losing our pharmaceutical conscience and reasonable self-determination to commercial dictatorship is both real and dangerous. In February of this year our Society inaugurated a series of conferences on the organisation of employed pharmacists. A statement appears in last week's *C. & D.* (p. 586) which indicates that employed pharmacists are to be a sphere of influence for the Association of Scientific Workers, the Shop Assistants Union, and the National Union of Distributive and Allied Workers. The plain fact is that they do not appeal and the Society's "about turn" relative to the report will not serve to further commend them. Pharmacists collectively are regarded, erroneously or otherwise, by the bulk of distributive workers to be fairly well off. Pharmaceutical sections of great Unions may have pharmacist officials, but the fact remains that the section itself must be but a part of a greater, and different, and finally governing, whole. Early this year the N.P.U. issued a questionnaire on employee organ-

isation and this gesture, plus the settle impression of the report, crystallised out in the formation of the National Pharmaceutical Employees' Union. This body starting from scratch, already has about 300 pharmacist members. It may well compare favourably with the figures of pharmacists in the National Union of Distributive and Allied Workers, which has certain advantages associated with conditions of employment. The National Pharmaceutical Employees' Union appeared to have a father in the N.P.U., and a potential god-mother in the Society. Despite its poverty, and its lack, at this stage, of registration, and its omission from the now constituted J.I.C., it remains as the outstanding effort of these times to effect organisation of employed pharmacists, by pharmacists, for pharmacists and for pharmacy. The Society should state openly why it has "about turned" on the report and why the N.P.E.U. effort to get moving on the line of the report fails to find favour and assistance in its early days. If there is objection to individuals, let them be indicted and given the right of self-defence. If N.P.E.U. is regarded as not set up in a manner pleasing to the Society, let the Society say so.

Yours faithfully,
Shipley, Yorks. J. WILKINSON.

The Society and Central Committee

SIR,—Mr. Linstead in his reply (*C. & D.* November 27, p. 608) to my letter does not deal directly with the various points which I raised. To save space in your valuable columns I will ask Mr. Linstead the following questions, and leave out arguments:—

1. Is it fair for the C.P.W.C. to send out letters on the Society's letterheading—if the Society has no responsibility for the C.P.W.C.'s decisions?
2. Has the Society or the C.P.W.C. tried to make any arrangements with the Government to give compensation for stock, rent and rates?
3. What is the use of the C.P.W.C. offering this scheme unless it can offer compensation?
4. Has the Society or the C.P.W.C. offered any advice to any of its members coming within this scheme?
5. Has not the Society tied its hands in collaborating with the Ministry of Health, and now when it is too late regrets its action in so collaborating?
6. If the Society is deprived of its power to advise its members is not that a "sell"?

Yours faithfully,
SYLWIAD.

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CHAS. ZIMMERMANN & CO. LTD.
9 & 10 St. Mary-at-Hill, London, E.C.3.

Enquiries to	} 75a HIGH STREET, RUISLIP MIDDLESEX	RUISLIP 3882
Medical Department		
Temporary Address		

A BRITISH PRODUCT

The Standardised Antiseptic
for
EYE DROPS
EYE SOLUTIONS
ETC.

NIPASEPT

ESTER COMPOUNDS OF
p-HYDROXYBENZOIC ACID

NIPA LABORATORIES LTD., TREFOREST TRADING ESTATE, Near CARDIFF
or their Sole Distributors for the U.K. and British Possessions
P. SAMUELSON & CO., 17 Greshchurch Lane, London, E.C.3 Telephone: AVENUE 3674.5

GUM TRACACANTH

GUM KARAYA

WHOLE AND POWDERED

M. HAMBURGER & SONS
DIRECT IMPORTERS
The Hawthorns, Leatherhead Road
GT. BOOKHAM, SURREY
Phone: Bookham 2746/8 "Hornaclon, Bookham"

British Made **AMPOULE FILES**
are now available

We are now in a position to manufacture large quantities of Ampoule Files and invite inquiries

DOMINION STEEL CORPORATION

LTD.

"FLEET" WORKS
QUEEN'S ROAD, SHEFFIELD, 2

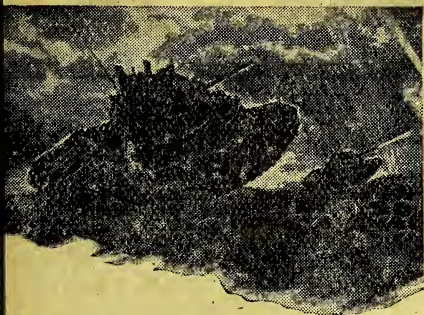
BURNSIDE'S EUCALYPTUS OILS

Distilled in Australia by the largest distillers and refiners of Eucalyptus Oils in the world—**W. K. BURNSIDE, PTY., LTD., MELBOURNE, AUSTRALIA.**

80/85% B.P.	70/75% B.P.
Oil Euc. Dives 40/45%	Piperitone 90/95%
Oil Euc. Citriodora	Oil Euc. Phellandra
. Phellandrene	

UNIFORMITY OF QUALITY . CONSISTENCY OF ODOUR

Agents for U.K.: WILSON & MANSFIELD LTD., 15 Philpot Lane, London, E.C.3
Phone: MANSION HOUSE 9264-5-6 (WHOLESALE ONLY) Grams, WYFIELD, LONDON



Armoured . . .



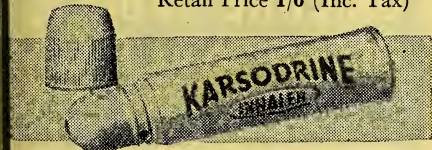
The Battalions of to-day fight behind defensive armour. The armoured car has replaced the cavalry horse and infantry advance under the protection of massed tank formations.

Medical research, too, has provided defensive armour for the medical profession. The prevention of disease by protective measures against the invisible but numberless and ubiquitous foe—the disease germs—is

increasingly lowering the general morbidity and mortality.

Decongestion of the turgid nasal mucosa in acute and chronic rhinitis, hay-fever, and sinusitis is rapidly effected by use of the Karsodrine Inhaler. Maximal shrinkage with corresponding symptomatic relief is obtained within five minutes. The powerful volatile vaso-constrictor in the Inhaler penetrates to the uttermost recesses of the nasal cavity and sinuses, securing optimal drainage and aeration. With only one cap to remove, the Karsodrine Inhaler is pre-eminently simple to use.

Retail Price 1/6 (Inc. Tax)



FORMULA: Amphetamine, 0.330 grm.; Cineole, 0.093 grm.; Ol. Citronell, 0.026 grm.; Methyl Salicyl, 0.023 grm.; Ol. Cedri, 0.005 grm.; Menthol, 0.049 grm.; Ol. Eucalypt, 0.089 grm.

Apart from its assured efficacy the Karsodrine Inhaler is an excellent financial proposition. The Retail Price is 1/6d. (inc. tax) which yields 5/2½d. per dozen profit. This applies equally to small quantities if ordered with other "Griffiths Hughes" products.

E. GRIFFITHS HUGHES
LIMITED



ADELPHI, SALFORD 3
MANCHESTER

A PRODUCT OF E. G. LABORATORIES

"OXOID"

The word "OXOID" is the trade mark of OXO Ltd., and is used in connection with their therapeutical preparations both, in tablet and fluid extract form.

ORGANO-THERAPEUTICAL PRODUCTS

OXO LABORATORY PREPARATIONS

"PITOXYLIN"

PITUITARY EXTRACT (POSTERIOR LOBE)

Prepared and standardised in accordance with the provisions of the Therapeutic Substances Act. Used for the Induction of Labour; Uterine Inertia; Post Partum Hæmorrhage; Surgical Shock; Diabetes Insipidus.

An approved and long established preparation.

Ampoules: 5, 10 and 20 International Units per c.c.

OXO LIMITED

Thames House, Queen Street Place,
London, E.C.4

★ OXO LABORATORY PREPARATIONS ★

Let him help
you sell

PLESOX

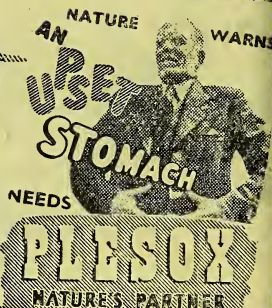
"The man with a pain" is becoming a national figure. Strongly advertised in the Press and magazines throughout Britain, he is daily telling sufferers to get PLESOX at any good Chemists. PLESOX—the modern scientific stomach treatment, carries 33½% discount, is a strong "repeat seller"—and an ethical line, made from an extraordinarily fine formula. Retailing at 2/3 and 6/8 (including purchase tax). On the P.A.T.A. Order a dozen trial size (2/3) in attractive display carton. Prompt deliveries.

P L E S O X

Distributed by EMMET DISTRIBUTING CO., LTD.,

140 Park Lane, W.1

For Granto Laboratories, 'td.

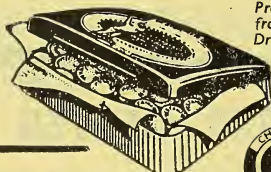


An upset stomach can only be put right by *natural* means. Its balance must be restored —and maintained—*naturally*. PLESOX does this. Co-operating with Nature it restores the natural rhythm and promotes the *balanced* flow of digestive juices —your system does the rest. Take PLESOX now and avoid chronic indigestion later. Remember the name—PLESOX—and forgo your indigestion. Prices: 2/3 and 6/8.

OBTAINABLE ALL CHEMISTS
Emmet Distributing Co., 140, Park Lane, W.

YESTAMIN

—THE NERVE FOOD
THAT ALL CAN SO
EASILY AFFORD



Prepared
from Pure
Dried YEAST



P.A.T.A. as well as

THE ENGLISH GRAINS COMPANY LTD.
Burton-on-Trent

• • MANOIDS • •
• • NEVROIDS • •
URICURE TABLETS
OCCASIONAL PILLS

THE ACTON PILL & TABLET Co. Ltd.
ASH VALE, SURREY.
and all Sundries Houses.

TO BUYERS OF:

HOMOCEA

2 doz. 1/6 size, 27/- per parcel

Prices include all Purchase Taxes and Postage or carriage and buyers may have up to two dozen for each shop and may re-order every month whilst this special offer remains open.

Remittances must be sent with each order and cheques should be crossed National Provincial Bank, Ltd.

NUMOL LTD. 46 Elswick Rd., Newcastle-on-Tyne 4

BIOLOGICAL MBL PREPARATIONS



THE QUALITY OF ALL MBL PRODUCTS IS ABSOLUTELY IDENTICAL WITH THAT OF PRE-WAR PREPARATION

because of our heavy purchases immediately before war broke out. Our stocks are still considerable and the high MBL standard will be fully maintained.

THERE IS NO SHORTAGE OF ANY OF OUR PREPARATIONS

		CHEMISTS' PRICE						
		Retail Price	Per unit			Per dozen		
		(Inclusive of Tax)	Net	+	Purchase Tax	Net	+	Purchase Tax
ANTIPEOL								
INTMENT								
	4 oz. tube	6/8½	4/2½	+	8½	50/5	+	8/5
	40 gr. „	3/4½	2/1½	+	4½	25/3	+	4/3
	20 gr. „	1/10½	1/2	+	2½	14/-	+	2/4
QUID								
	40 c.c. bottle	3/4½	2/1½	+	4½	25/3	+	4/3
OPHTHALMO-ANTIPEOL								
	10 gr. Nozzled tube	3/4½	2/1½	+	4½	25/3	+	4/3
RHINO-ANTIPEOL								
	10 gr. Nozzled tube	2/9½	1/9	+	3½	21/-	+	3/6
ENTEROFAGOS (ORAL AND INJECTABLE)								
	Box of 50 ampoules	19/-	13/3½		None	159/7		None
	„ 10 „	4/3	3/-		None	35/8		None
	„ 5 „	2/6	1/9		None	21/-		None
DETENSYL								
	Box of 500 tablets	39/-	24/-	+	4/-	288/-	+	48/-
	Tube of 50 „	4/5½	2/8½	+	5½	32/4	+	5/3
ST. JAMES' BALM								
	Box of approx. 2½ ozs.	2/10	1/11	+	4	22/6	+	3/9
	„ „ 1 oz.	1/5	11	+	2	11/3	+	1/11
	Tube	1/2	9	+	2	9/-	+	1/6

Carriage paid on all orders of 1 dozen or £1 and over.

Terms: NETT, monthly account.

EDICO-BIOLOGICAL LABORATORIES LTD., LONDON, S.E.25

**WHY
DOES IT
SELL?**

*The
Answer's
the
LEMON*

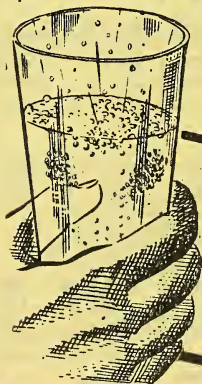
Harrogate CONCENTRATED Health Salts

HARROGATE SPARKLING HEALTH SALTS contain the natural oil of lemon. That is why they have so quickly come to the fore. Packed in two attractive sizes—'handy' and 'family.' National Advertising is in full swing. Supplies are restricted but orders are dealt with in rotation, and you are invited to apply for a quota to the sole selling agents: Koray Limited, Blackpool.

Manufactured by the
Harrogate Tablet Co. Ltd.

Sole Selling Agents for the
British Isles

**KORAY LIMITED
BLACKPOOL**



PRICES
32/- per doz.
(Purchase tax, 5/4)
Retail selling price
3/9 (incl. tax).
6/- per doz.
(Purchase tax, 1/-)
Retail selling price
9d. (incl. tax)

NATIONALLY ADVERTISED TOO!

Betalax

THE NEW-PROCESS
**CHOCOLATE
LAXATIVE**

The Better Seller

It pays to stock and display Betalax, the better chocolate laxative. Established in public favour because of its gentle action, Betalax can be recommended with confidence. By the new process, each chocolate drop contains exactly the correct dose. Order now—supplies are not unlimited.

Betalax "sixes" Wholesale 18/- per gross
(Purchase tax 3/-). Retail 2½d. inc. tax.

Betalax "fifteens" Wholesale 45/- per gross
(Purchase tax 7/6). Retail 6d. inc. tax.

CHILDREN LOVE IT.
SO WILL YOU.



**THE BETALAX CO.
LONDON & BLACKPOOL**

Genatosan' Products— Prestige with Profit

'CALOGEN'

BRAND

Vitaminised Calcium tablets

A palatable combination of three calcium salts (including Calcium Gluconate) with vitamins A and D. For the prevention of chilblains, as a dietary supplement in pregnancy and lactation and for all conditions arising from calcium deficiency.

	Retail	Trade
60's	3/4	2/- plus tax

'CUPRAGEN'

BRAND

Cream

A non-greasy, emollient cream, an effective application for minor facial dermatoses, impetigo and other common skin affections.

	Retail	Trade
2 oz. jars	1/8	1/- plus tax

'CYSTOPURIN'

BRAND

Urinary Antiseptic tablets

Hexamine Sodium Acetate. A safe and reliable antiseptic and diuretic, for urinary and biliary disorders.

	Retail	Trade
40's	2/10	1/10½ plus tax
80's	4/6	3/- " "

'B.V.U.'

*Bromoisovalerylurea
5 grain tablets.*

A safe sedative and mild hypnotic, for insomnia, travel sickness and all forms of nervous dysfunction.

	Retail	Trade
10's	2/3	1/4 plus tax

* Regd. Trade Mark.

7½% Discount and Carriage Paid Terms on £3 parcels.

GENATOSAN LTD., LOUGHBOROUGH, LEICESTERSHIRE

The News is Better—

Messrs. Robert Ferber Ltd., have pleasure in announcing that the situation concerning supplies of Medicinal Capsules has IMPROVED and deliveries are now being made more promptly of all kinds, excepting a very few for which medicaments are not available.

Customers who are entitled to allocation of Halibut Liver Oil Capsules should send in their orders NOW.

ROBERT FERBER, LTD.
Carlton Works, Asylum Road
London, S.E.15

Telephone: NEW CROSS 0768

Dr. J. Collis Browne's Chlorodyne
and
The Pharmacy and Poisons Act, 1933

Dr. J. Collis Browne's
CHLORDYNE

SALE RESTRICTED TO REGISTERED CHEMISTS

PURCHASER'S SIGNATURE NOT REQUIRED



Sole Proprietors:

J. T. DAVENPORT LTD.
UNION ST., LONDON, S.E.1

P.A.T.A.

CORNER'S OILS

The GREAT remedy for
Accidents and Animal Ailments

Protected Retail Price - - - **3/1** per bottle.

Wholesale - - - - - **24/-** per doz.

(Plus Purchase Tax.)

Carriage Paid on 3 dozen lots

P.A.T.A. Nett 1 month.

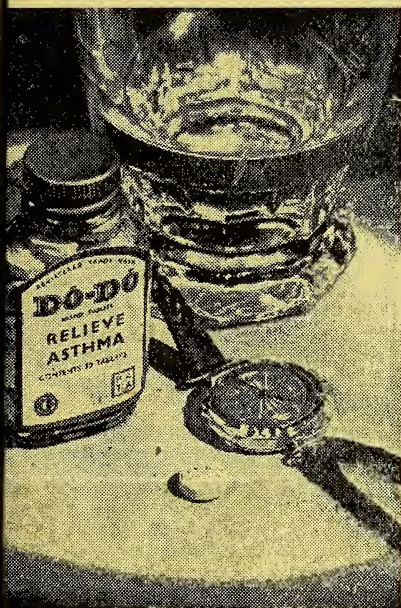
EVANS, GADD & CO., LTD., having the
sole proprietary rights in the above excellent
and well-known article, are prepared to appoint
Agents on liberal Terms.

For Window Show Terms, apply to

EVANS, GADD & CO., LTD.
EXETER

Telephone: Exeter 2278 (Three lines)

Telegrams: Gadd, Exeter



Asthma Tabellae

(International Laboratory DO-DO Formula)

The treatment of Asthma by Tabellae is a recognised part of modern medical practice. Do-Do Asthma Tablets commend themselves by virtue of formula and unvarying excellence of manufacture.

Do-Do Tablets are indicated in cases of Adult Asthma, Bronchial Asthma, Bronchitis, etc. Spasm relieved in 30 seconds; normal breathing restored in 15-30 minutes.

30 tablets, 3s. 4½d. Trial size, 7 full Doses, 1s. 1½d. Prices include Purchase Tax.

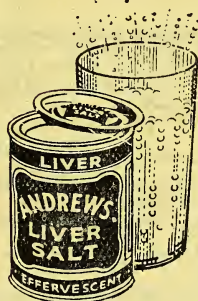
INTERNATIONAL LABORATORIES LTD.
CHARLBURY · OXFORD
Charlbury 29

Will

customers please note that invoices for their supplies of Andrews are now marked: "INVOICE AND STATEMENT."

This is our way of asking them to pay direct from the Invoice and not to expect a further statement of account. By introducing this rule, valuable paper is saved and less labour is required. This helps the national effort.

LOST IN TRANSIT: Would customers please notify us of any non-delivery of Andrews within 14 days of receiving the invoice.



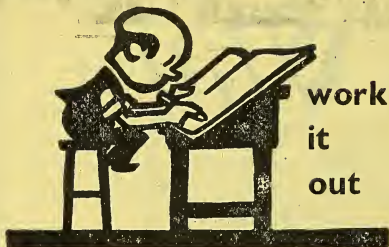
ANDREWS

LIVER SALT

*The Ideal
Tonic Laxative*

SCOTT & TURNER LTD.
Andrews House, Newcastle-upon-Tyne, 2

When you come to



Old friends are best—remedies the public has been asking for over the past fifty years are there in the right column. The National Digestion will, some time, have to work its way out of austerity diet, and then as now there'll be very good demand for

BOX'S PILLS P.A.T.A.

Retail Prices

1/3, 3/-, 4/10¹/₂, 12/-, 21/9 Including Purchase Tax

W. H. BOX, KING STREET, PLYMOUTH

1896 **P.A.T.A.** 1943

FOR 47 YEARS THE P.A.T.A. SYSTEM OF
PROTECTED PRICES AND FAIR PROFITS
HAS HELPED THE CHEMIST

Compare the rates of profit represented by the entries in the Protected List 1943 with those existing 25 or 30 years ago and the good work done by the P.A.T.A. Council for the retail trade will be evident!

The 1943 Protected List of the P.A.T.A. enumerates the articles (some 3000 in number) of nearly 400 manufacturers who provide protected prices and fair profits for the chemist.

SUPPORT THE MANUFACTURERS WHOSE
GOODS ARE PROTECTED BY THE P.A.T.A.

Continuous and Steadily Advertised Goods FOR DESTROYING RATS AND MICE

DANYSZ VIRUS

Retail Price (Protected) Net Wholesale Price
Virus for Rats and Mice, single tube, 2/- 15/- per doz

3 tubes, 5/-
Virus for Mice only single tube, 1/6 9/-
3 tubes, 3/-

Date-expired tubes returned to us postage paid will be exchanged free of charge.

Danzysz Virus in Liquid Form

Retail Price	Wholesale Price
Bottles 6/- each	4/6 each
" 4/6 "	3/9 "

HALLER'S EXTRACT OF SQUILL and DANZO RAT KILLER

Discount off Retail Prices 25% Monthly Account, or
33¹/₄% Cash with Order.

Retail	Monthly A/c	Cash with Order
¹ / ₂ gall. tins 10/-	7/6	6/8
1 " 18/-	13/6	12/-
5 " 80/-	60/-	53/4

DANZO BEETLE POWDER

For destroying Blackbeetles, Cockroaches, Crickets, etc.
Retail Prices (Protected) Wholesale Prices

In cartons 9d. each	6/9 per doz.
" 1/6 "	13/6
" 3/- "	27/-

Danzo Beetle Powder will not deteriorate by keeping.

CARRIAGE PAID ON ALL ORDERS

To be obtained from

HALLER LABORATORIES, LTD.

325 Borough High Street, LONDON, S.E.1

Telegrams: "Virudana, Sedist, London." Telephone: HOP. 2717

SAMONA

75% OF YOUR
CUSTOMERS
NEED

SAMONA

The well known Restorative

This wonderful Medical Restorative BRINGS
IMMEDIATE RELIEF IN ALL CASES OF
NERVE STRAIN, DEPRESSION, TIRED AND
LISTLESS APPEARANCE, MENTAL and
PHYSICAL EXHAUSTION.



SAMONA LTD., Northington
House, Northington Street,
LONDON, W.C.1

PRICES (including purchase tax)
3/5 and 5/7¹/₂
(more than double quantity)

MISCELLANEOUS OPPORTUNITIES

Lipstick Refills, assorted Shades, at 11/6 doz.
Lipstick Refills, assorted Shades (Blossom time), at 12/- doz.
Toilet Mirror and Scissors in Wallet, at 0/2 doz.
Mirror and Note-pad in folder at 10/5 doz.
The above are subject to 100 per cent. Purch. Tax.
Head Turbanets, assorted shades, at 18/- doz.
Hair Slides, assorted shades, at 30/- gross.
The above are subject to 33½ per cent. Purch. Tax.
Also Sanitary Towels, Furniture Cream and other fancy Goods.

For Price List send S.A.E. to: **MARLENE PRODUCTS**, 5 Fryent Way, Kingsbury, London, N.W.9.

SACCHARINE ENVELOPES

Un gummed, plain 4/11 per 1,000. Gummed, printed standard wording (100's), 6/6 per 1,000. Special prices for larger quantities.

LEWIS EAST, LTD.

Envelope Makers

84 Romway Road, Leicester

Stearic Acid and Talc Substitute, 7 lbs. 5/- post free; ½ ton le-pressed white stearic acid; 7-14 lb. lots at 5/- lb., offers for bulk; 2 x 5 cwt. Ammonium Carbonate. **John Crockett Hand Operated Powder Filler**, almost 20 gross 4-oz. Hair Creams and Caps, 36/- gross; on each Yellow and Red Ochres; 3 tons various amines

BRITISH PRODUCTS

Lind Road, Sutton, Surrey.

Vigilant 6119

WATER SOLUBLE ESSENCES

Muguet	lb. 25/-	Tax 100% Extra
Bouquet	lb. 25/-	
Chypre	lb. 20/-	
Rocky Club	lb. 12/6	
Lavender	lb. 24/-	
Fougere (Fern)	lb. 25/-	
Wallflower	lb. 25/-	
Millefleurs	lb. 25/-	
Narcissus	lb. 20/-	

Minimum quantity supplied, 4 oz. Bottles: 1 lb., 8 oz., 6d. extra. Under 8 oz., 3d. extra.

5% discount to customers collecting their goods.

HARMAN DIETETIC LABORATORIES, Ltd., 109 Cricklewood Broadway, N.W.2
GLadstone 1084

LIPSTICK CASES (push up), 11 mm., 45/- per gross. Today's best value, in attractive colours.
REFILLS, 12/- per doz. (plus 100% p.t.).
"LADASTOP" Lacquer and "LADASTOP" Remover, 13/- per doz. bottles (plus 33½% p.t.).
SHAMPOO POWDERS in packets, 30/- per gross (plus 33½% p.t.).
"CLEMDOL" Wonder Wax Emulsions, 15/- per lb. (No. 3 Face, No. 7 Haircream).
PERFUMES in 1 and 2 dram bottles, 12/- and 18/- per doz. (plus 100% p.t.).

M. CLEMENTS (Chemists Sundries) Ltd.

57 Wells Street, London, W.1

Phone: MUSEUM 5119

BOTTLE AND JAR DEALERS

In a small way of Business are invited to co-operate with

GENERAL RECOVERY

Glass Receptacle, Salvage and Reclamation, to maintain supplies in Quantities, worth while for Manufacturers to handle.

We have washing facilities, and can handle any amount, from 1 to 100s of gross. Either Buying your small stocks for Cash, or acting as your Sales Agents. Full details from

G.R. WORKS 19 Birkbeck Hill, London L.C.C. S.E.21. Tel.: GIP. 1252

We are Washing Contractors and Suppliers of Bottles and Jars. All types and sizes for any Commodity. Users' odd stocks bought. Large or small quantities.

BONUS PARCELS OF GUARANTEED PRODUCTS

Available December and January only.

28 dozen 3d. "Happy" Dyes (one dozen each colour), shade card and window bills, for 50s. Retailing at £4 4s.—profit £1 14s.

18 dozen 6d. Creighton Cold Water Dyes (one dozen each colour) for 67s. 6d. Retailing at £5 8s.—profit £2 0s. 6d. Carriage paid.

New accounts C.O.D. or C.W.O. This offer is not applicable to Eire and Northern Ireland.

We are making the above offers to enable you to stock up now for the coming season. The additional profit shown makes this an excellent proposition. Our usual generous Wholesale terms are applicable on these offers.

JOHN PRENTICE (London) LTD., 3 The Exchange, Muswell Hill, N.10. Telephone: Tudor 2174

OFFERED

- 40 lb. Aniseed Oil, B.P. (China Star).
- 48 lb. Anesic Aldehyde (Aubepine).
- 2x7 lb. Oil Red Thyme, B.P.C.
- 420 lb. drum Eucalyptus Oil, B.P., 70/75%.
- 420 lb. drum Eucalyptus Oil, B.P., 80/85%.
- 150 lb. Lemongrass Oil (Verbena).
- 50 lb. Peppermint Oil.
- 9 lb. Geranium Oil.
- 12 lb. Cassia Oil (80/85%).

Special Low Prices on request.

HENSHAW, M.P.S., 97 Clearmount Road, Weymouth. Tel. 448.

ANDRÉ

"The Name for Quality"

Send for Price Lists of our

Pharmaceutical Products
Toilet Preparations
Household Necessities
and Sidelines, etc.

Enquiries to—

15 Half Moon St., Piccadilly, London, W.1

(Grosvenor 2423/4/5)

An Advance in Calcium Therapy



The need for an adequate intake of calcium and phosphorus is becoming more and more widely recognized. 'Calfos' supplies these essential minerals in a concentrated, palatable and physiologically balanced form. It is especially indicated during childhood and pregnancy and for the prevention of chilblains and the many other manifestations of calcium deficiency.

TRADE AND RETAIL PRICES

	Face Price Exclusive of Tax	TRADE PRICE per dozen	Purchase Tax per dozen	Minimum Retail Price including Purchase Tax
Box of 50 Tablets	2/6	20/-	3/4	2/9½
Box of 120 Tablets	4/9	38/-	6/4	5/3½

Special terms are available for hospital packs.

CALFOS LIMITED

IMPERIAL HOUSE, 15-19, KINGSWAY, LONDON, W.C.2

Temple Bar 3629



The CHEMIST AND DRUGGIST

SUPPLEMENT

This Supplement is inserted in every copy of The Chemist & Druggist

DECEMBER 18
1943

28 ESSEX STREET, LONDON, W.C.2

Supplement Advertisements must be prepaid and should reach us not later than FIRST POST TUESDAY week of issue. Box Office numbers 1/- extra. Late advertisements will be held over to following week.

SELF-EMULSIFYING WAX

@ 6/9 per lb.

Designed for simple production of stable pharmaceutical and toilet products.

LOUIS MAURICE & CO., LTD.
OLD FORD RD., LONDON, E.3

Advance 3864 (4 lines).

SMART BOTTLES & JARS

1 oz. to 40 oz., with metal screw caps, also corks. Large stocks, prompt delivery. Send stamp for list.

M.F. LTD.

CAVENDISH PLACE, LONDON, W.1

Ambresil No. 398. Produces a fine, brilliant white cream, with water only. Ambresil No. 4. The Premier Oil-in-Water Emulsifier. Ambresil No. 559. Produces a cold, cleansing and similar cream. Ambresil G.M. Produces an unusual variety of Toilet Creams. Technical data on application. Price of each 15s. lb. Reduction for quantities. Bristol-Ambresils Ltd. 6 Tower Street, Harrogate

FOR SALE

PULV. TRAG., finest white, 26/- lb. 1 lb. parcels at 25/- lb.

R. WHITE, M.P.S.

Lynch House, Chilcompton, nr. Bath

ORRIDGE & CO.

COLUMBIA HOUSE. ALDWYCH. W.C.2
LEICESTER ROAD, SOUTHAMPTON
36 CORPORATION ST., BIRMINGHAM

Invite early applications for stocktaking for year ending 31st DECEMBER, 1943

The programme is now being drawn up

Extensive Staff. Thorough Work. Early Results. Reasonable Terms

Lump Sum or Ad Valorem basis

EXCEPTIONAL OFFERS

Genuine Talc
Talc Substitute Zinc Stearate
Emulsifying Wax
Spermaceti Stearic Acid
Essential Oils

Bulk Inquiries only

J. J. VIGON & CO.

30 Fenchurch Street, London, E.C.3
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OPTICAL TUITION

FOR THE

S.M.C., B.O.A., and N.A.O. DIPLOMA Examinations

Particulars:—

C. A. SCURR, F.S.M.C., F.B.O.A., F.N.A.O.,
F.I.O., F.C.O., M.P.S.

50 HIGH STREET, BARNET, LONDON, N.

EMULSION WAX F.M.C.

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With certain exceptions, women over 18 and under 41 years of age seeking Employment and Employers seeking to engage such women are now required to do so only through the local office of the Ministry of Labour and National Service or an approved employment agency.

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